

WATERFORD STEAM ELECTRIC STATION
UNIT NO. 3
TAFT, LOUISIANA

DOCKET NUMBER 50-382

REACTOR CONTAINMENT BUILDING
INTEGRATED LEAKAGE RATE TEST

FINAL REPORT

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I. INTRODUCTION

A series of two preoperational Type "A" Integrated Leakage Rate Tests (ILRT) were performed on the primary containment structure of the Louisiana Power & Light Company, Waterford Steam Electric Station Unit No. 3, Pressurized Water Reactor.

The ILRT tests were performed using the "Absolute Method" of testing in accordance with the Code of Federal Regulations, Title 10, Part 50, Appendix J - Primary Reactor Containment Leakage Testing for Water-Cooled Power Reactors and in accordance with the American National Standard ANSI N45.4 - 1972, Leakage-Rate Testing of Containment Structures for Nuclear Reactors. The calculations of leakage rate were performed using the "Mass Point Method" as described in ANSI/ANS 56.8 - 1981, American National Standard - Containment System Leakage Testing Requirements. The first ILRT test was performed at a containment pressure slightly above one-half of peak accident internal pressure. The purpose of this test was to obtain a measured leakage rate to be used in determining the acceptance criteria, should a reduced pressure periodic leakage rate program be elected for future testing. The second ILRT test was performed at a pressure in excess of the calculated peak containment internal pressure related to the design basis accident as specified in the Final Safety Analysis Report (FSAR) and the Technical Specifications.

This report describes and presents the results of these preoperational type "A" leakage rate tests, including the supplemental test method utilized for verification.

II. SUMMARY

To prepare the containment and associated systems penetrating the containment for the preoperational Type "A" ILRTs, Type "B" local penetration leakage rate tests and Type "C" local containment isolation valve leakage rate tests were performed. These Type "B" and Type "C" tests, collectively known as Local Leakage Rate Tests (LLRT), are described in Section 6.2 of the FSAR.

Prior to pressurization of the containment vessel for the ILRT, all containment systems and isolation valves were lined up, vented and/or drained, to simulate accident conditions as described in Section 6.2 of the FSAK.

The containment was pressurized with air to a pressure slightly above one-half peak containment internal pressure to perform the reduced pressure ILRT test sequence. Following temperature stabilization, containment leakage rate data was accumulated for a twenty-four hour period during which an acceptable leakage was measured. The fitted mass point leakage rate for the period was calculated to be 0.002 percent of the contained mass per day. The one-sided ninety-five percent Upper Confidence Level (UCL) for this measurement was 0.008 percent per day. The acceptance criteria for the preoperational reduced pressure ILRT, as defined by Appendix J to 10 CFR 50, is that the measured leakage including uncertainties be less than 0.265 percent per day (0.75 times the reduced pressure design leakage). A supplementary Controlled Leakage Rate Test (CLRT) was performed to verify the reduced pressure ILRT leakage measurements with acceptable results determined.

The containment was then pressurized to slightly above the peak containment internal pressure to conduct the peak pressure ILRT test sequence. Following temperature stabilization, containment leakage rate data was accumulated for a twenty-four hour period during which an acceptable leakage was measured. The fitted mass point leakage rate for the period was calculated to be 0.066 percent per day with a 0.068 percent per day UCL. The acceptance criteria for the peak pressure ILRT, as defined by Appendix J to 10 CFR 50, is that the measured leakage including uncertainties be less than 0.375 percent per day (0.75 times the containment design leakage). The peak pressure CLRT results verified that the measured peak pressure ILRT leakage results are within the allowable acceptance band. It is worthwhile noting, that although Louisiana Power & Light Company has not committed to ANSI/ANS 56.8-1981, the peak pressure ILRT was performed in accordance with all recommendations of this standard, as applicable to the preoperational ILRT.

III. TEST DISCUSSION

A. Description of the Containment

The containment vessel completely encloses the entire reactor and reactor coolant system, to ensure no leakage of radioactive materials to the environment, in the unlikely event of a loss of coolant accident.

The containment system incorporates a freestanding containment vessel, surrounded by a low leakage reinforced concrete shield building. A four-foot annular air space is provided between the outer wall of the containment vessel and the inner wall of the shield building, to allow filtration of any containment vessel leakage during accident conditions to minimize off-site doses.

The freestanding containment vessel is a two-inch thick circular cylinder, with a one inch thick hemispherical dome and two inch thick ellipsoidal bottom. The overall vessel dimensions are: 140 foot diameter by 240.5 foot high. The vessel wall thickness is increased to a minimum of four inches adjacent to all penetrations and openings. The vessel is fabricated of ASME-SA 516 Grade 70 fully killed pressure vessel quality steel plate. The net free volume of the containment vessel is 2.677×10^6 cubic feet.

The containment vessel structure includes one personnel airlock, one emergency escape airlock, one fuel transfer tube, one equipment maintenance hatch and one seal-welded construction hatch. All process piping and electrical penetrations are welded directly to the containment vessel nozzles, with the exception of the main steam, main feedwater and fuel transfer tube penetrations. These penetrations are provided with testable expansion bellows, to allow for thermal growth or building differential motion.

The containment vessel is designed and constructed in accordance with the requirements for class MC vessels contained in section III, Subsection NE of the ASME Code, 1971 Edition including Summer 1971 Addenda and Code cases 1431, 1454-1 and 1517, as approved by USNRC Regulatory Guides 1.84 and 1.85. The containment vessel is code stamped in accordance with Paragraph NE-8000 of Section III of the ASME Boiler and Pressure Vessel Code. The containment vessel and all penetrations are designed to limit leakage to less than 0.5 percent by weight of the contained air mass per day, at the design pressure of 44 psig. The calculated peak accident pressure for the design basis accident at Waterford SES Unit No. 3 is 44 psig at 263°F.

Following field erection of the containment vessel, post weld heat treatment, pressurized vessel solution film testing and vessel overload testing were performed in accordance with Section III of the ASME Code. This sequence of testing is described in Sections 3.8.2.6 and 3.8.2.7 of the FSAR.

B. Description of ILRT Test Instrumentation

The containment system was equipped with instrumentation to permit leakage rate determination by the "absolute method." Utilizing this method, the actual mass of dry air within the containment is calculated. The leakage

rate becomes the time rate of change of this value. The air mass Q is calculated according to the Perfect Gas Law as follows:

$$Q = \frac{(P-P_v) V}{RT}$$

- Where: P - Containment Total Absolute Pressure
- P_v - Containment Water Vapor Pressure
- V - Containment Net Free Volume
- R - Gas Constant
- T - Containment Absolute Temperature

The primary measurement variables required are: containment absolute pressure, containment relative humidity and containment temperature as a function of time. During the supplementary verification test, containment bleed-off flow was also recorded.

The Instrument Selection Guide (ISG) was used to determine the capability of the instrumentation to measure the leakage rate. The calculated ISG for this test met all acceptance criteria for the test instrumentation system.

1. Temperature Instrumentation

Forty precision Resistance Temperature Detectors (RTDs) were located throughout the containment to allow measurement of the volumetrically weighted average air temperature. The location of the temperature detectors in the containment is shown in Figure 1. The volumetric weighting factors for the RTDs are given in Appendix C. Each RTD was procured to an accuracy of $\pm 0.1^\circ\text{F}$. The sensitivity of the RTDs was measured as $\pm 0.05^\circ\text{F}$.

The signal conditioning circuit and readout for the RTD sensors was a Kaye datalogger with Wheatstone bridges used for RTD signal conditioning. The signal conditioning circuit and readout had a repeatability of $\pm 0.005^\circ\text{F}$ and a resolution of $\pm 0.005^\circ\text{F}$.

2. Humidity Instrumentation

Ten Resistance Humidity Detectors (RHDs) were located throughout the containment to allow measurement of the volumetrically weighted average containment vapor pressure. The location of the RHDs in the containment is shown in Figure 2. The volumetric weighting factors for the RHDs are given in Appendix C. The calibrated accuracy of the RHD, was ± 2.5 percent RH, the repeatability of the RHDs was ± 0.10 percent RH and the sensitivity of the RHDs was ± 0.1 percent RH.

The readout device used for the RHDs was a Kaye datalogger. The repeatability of this device was ± 0.01 percent RH while the resolution of the device was ± 0.01 percent RH.

3. Pressure Instrumentation

Two precision digital pressure gauges were used to determine containment absolute pressure. The arrangement of the piping connection between the pressure gauges and the containment is shown in Figure 3. Either pressure gauge could be used as the primary pressure sensor for the leakage rate calculations, with the remaining sensor being considered as a backup. The calibrated accuracy of the primary pressure sensor was ± 0.02 percent of reading or ± 0.012 psi for the high-pressure test. The sensitivity and repeatability of the pressure gauges was measured as ± 0.001 psi.

The readout device for the pressure gauges was a Guildline digital multimeter, reading the current loop output of the pressure sensor. The readout device had a repeatability and resolution of ± 0.00006 psi.

4. Flow Instrumentation

Two thermal mass flowmeters and one variable area Rotameter were used to superimpose leakage during the supplementary CLRT. The piping arrangement between the flowmeters and containment is shown in Figure 3. The two thermal mass flowmeters were arranged so that they could be used in series for greater repeatability or singly in case of a failure of the other sensor for increased reliability. The two thermal mass flowmeters were used for the reduced pressure CLRT. The variable area rotameter was used for the peak pressure CLRT and was calibrated at that pressure. The accuracy, repeatability, sensitivity and range of the three flowmeters in units of SCFM, and converted to equivalent leakage values, is given below:

	<u>SCFM</u>	<u>Equivalent Leakage</u>
Reduced Pressure Thermal Mass Flowmeter:		
Range	25.00	0.539%/day
Accuracy	± 0.50	$\pm 0.011\%/day$
Repeatability	± 0.25	$\pm 0.005\%/day$
Sensitivity	± 0.25	$\pm 0.005\%/day$
Peak Pressure Rotameter:		
Range	60.00	0.808%/day
Accuracy	± 0.60	$\pm 0.008\%/day$
Repeatability	± 0.15	$\pm 0.002\%/day$
Sensitivity	± 0.15	$\pm 0.002\%/day$

5. Instrument Selection Guide (ISG)

The Instrument Selection Guide is a method of compiling the instrumentation sensitivity and resolution for each process measurement variable used during the ILRT and evaluating the total instrumentation system's ability to detect leakage rates in the range required. Although the ISG is a very conservative measure of sensitivity, the general industry practice is to require sensitivity at least four times the containment design leakage or $ISG \leq 0.25L_d$.

The pre-test ISG for the Waterford No. 3 ILRT instrumentation system was calculated as follows:

	<u>Pre-Test ISG</u>	<u>Maximum Acceptable</u>
Reduced Pressure Test	0.004%/day	0.088%/day
Peak Pressure Test	0.002%/day	0.125%/day

As noted in the above calculations, the pre-test ISG sensitivity of the ILRT instrumentation system was demonstrated as more than adequate.

C. Containment Pressurization Equipment

The equipment used to pressurize the containment and its piping arrangement are shown in Figure 4. The seven oil-free industrial electric driven air compressors had a total nominal capacity of 12,000 ACFM. The compressed air was then routed through chilled-water aftercoolers, moisture separators and a deliquescent desiccant air dryer. This equipment arrangement assured that only clean and dry air was used to pressurize the containment.

D. Description of the Computer Program

The Ebasco ILRT computer program is an interactive Fortran IV program written specifically for fast, easy utilization during all phases of the ILRT and CLRT. Data entry and modifications, if necessary, are readily accomplished by the data acquisition team. In addition to extensive data verification routines, the program calculates, on demand, total time and mass point leak rates as well as the 95 percent Upper Confidence Level for these leakage rate calculations.

Sample rejection based upon the Chauvenet criterion may be utilized in the analysis, if required, due to recording errors, power failures, etc.

Input data may be deleted for a given instrument in the case of a sensor malfunction. This deletion of a given instrument is performed on all samples in the data base. Volumetric weighting factors, if applicable, are then recalculated for the remaining instrument sensors of that type.

Data evaluations are enhanced by the flexible display of either sensor variables or various computed values in tabular or graphical form on the computer terminal. Data is recorded on tape to prevent loss during the

testing. All data is stored on the computer systems in use with retrieval capability to any desired data base throughout the testing.

Ancillary portions of the program assist the user in detection of temperature stabilization, perform ISG calculations, perform in-situ Instrument Loop Performance calculations and detect acceptable superimposed CLRT leakage verification.

Temperature, pressure and humidity data are entered interactively via the computer terminal at 15 minute intervals. Computer verification and checking routines supplement data verification by the data acquisition team. Modifications are promptly made when errors are detected. Prior to issuance of this report, further extensive data verification was performed.

E. Description of the Testing Sequence

On April 26, 1983, all type "B" and "C" local leakage rate tests, all ILRT instrumentation checks, all ILRT valve lineups and containment preparations for pressurization were complete. A final inspection of the interior and exterior of the containment vessel and internal components was made to prepare the containment for pressurization.

The containment was declared ready for pressurization and the air compressors started at 0420 hours on April 27, 1983. The sequence of pressure testing for the containment is graphically shown on Figure 5.

At 0725 hours on April 27, 1983, pressurization was secured at 10.2 psig, to perform external leak surveys of the containment vessel and its penetrations. The leak survey teams found and isolated a minor leak on a containment spray line level indicator, caused by improper positioning of valving. It was noted that this valving was inadvertently left out of the test valve lineup. Further procedural checks and leak surveys found no other discrepancies. The air compressors were restarted and pressurization to the next plateau begun at 1025 hours.

At 1120 hours, on the same day, pressurization was secured at 12.8 psig to investigate a fire alarm in the containment. Although external investigations implied that this was a false alarm, a containment personnel entry was made for confirmation. Once confirmation was received, containment pressurization was restarted at 1356 hours.

Pressurization of the containment was secured at 1720 hours on April 27, 1983, at a containment pressure of 23.2 psig, to conduct the reduced pressure ILRT test sequence. This pressure was 1.2 psi above the minimum test pressure of 22 psig to account for expected pressure decrease during temperature stabilization. At 2145 hours, after analyzing four and one-quarter hours of test data, containment temperature stabilization criteria were met, and ILRT leakage rate data taking was initiated.

Twenty four hours of ILRT leakage rate data were completed at 2200 hours on April 28, 1983. The data accumulated displayed low and stable leakage rates as follows:

Simple Mass Point Leakage Rate	= 0.014%/day
Fitted Mass Point Leakage Rate	= 0.002%/day
95 Percent Upper Confidence Level (UCL)	= 0.008%/day

The acceptance criteria at this stage of testing was 0.265%/day and the reduced pressure CLRT was declared complete and acceptable.

The supplemental verification reduced pressure CLRT was initiated by using the thermal mass flow meters to superimpose a bleed-off flow of 17.21 SCFM, equivalent to a superimposed leakage of 0.363%/day. After allowing for a two hour stabilization period, CLRT data taking was initiated at 0015 hours on April 29, 1983. After four and one-quarter hours of data taking, the superimposed flow was secured. The fitted mass point leakage rate for the CLRT was 0.356%/day, well within the verification acceptance criteria for the low pressure CLRT.

Pressurization to peak pressure was initiated at 0515 hours on April 29, 1983, with the target pressure of 46.7 psig achieved at 1255 hours. This pressure was 2.7 psi above the required test pressure of 44 psig to account for the expected pressure decrease during temperature stabilization. A higher rate of containment pressure decay than could be accounted for due to temperature drop was initially exhibited, pointing to a leak in the containment. Leak survey teams found that the manual containment isolation valve on the ILRT pressurization line had not been fully closed. After full valve closure, temperature stabilization data taking was started at 1400 hours. Containment temperature stabilization criteria were met four hours later and peak pressure ILRT leakage rate data taking was initiated at 1800 hours on April 29, 1983.

Approximately nine hours into the peak pressure ILRT, one of the temperature sensors, RTD40, began to behave erratically and RTD40 was deleted from the leakage rate calculations. Volumetric weighting factors for the appropriate adjacent RTDs were adjusted and leakage rate data taking was continued. Approximately nineteen hours into the peak pressure ILRT, RTD18 and RTD20 were deleted from the leakage rate calculation for the same reason as noted for RTD40.

- Twenty four hours of ILRT leakage rate data were completed at 1800 hours on April 30, 1983. The data accumulated displayed low and stable leakage rates as follows:

Simple mass point leakage rate	= 0.057%/day
Fitted Mass point leakage rate	= 0.066%/day
95 percent Upper Confidence Level (UCL)	= 0.068%/day

The acceptance criteria for this stage of testing was 0.375%/day and the peak pressure ILRT was declared complete and acceptable.

The peak pressure CLRT was initiated by using the variable area rotameter to superimpose a bleed-off flow of 38.46 SCFM, equivalent to a superimposed leakage of 0.499%/day. After allowing for a one and one-half hour stabilization period, CLRT data taking was initiated at 1945 hours on April 30, 1983. After five and one-half hours of data taking, the superimposed flow was secured. The fitted mass point leakage rate for the CLRT was 0.572%/day, well within the verification acceptance criteria for the peak pressure CLRT.

Between the time of 0127 and 0201 hours on May 1, 1983, depressurization of the containment vessel from 45.8 psig to 44.2 psig was performed as a prerequisite to the Containment Cooling System preoperational test. Upon successful completion of the Containment Cooling System preoperational test, depressurization of the containment to ambient pressure was initiated at 0315 hours.

At 1415 hours on May 1, 1983, the containment was at atmospheric pressure and a post-test internal inspection was made. The internal inspection showed no evidence of structural deformation.

Subsequent to the ILRT, the two process piping penetrations which were in use during the ILRT (pressure sensing, pressurization/depressurization) were subjected to LLRT tests. The result of the local tests was less than 0.0001 %/day leakage not accounted for during the ILRT and was to be added to the measured ILRT results. Due to the fact that this value was less than the minimum detectable leakage measured during the ILRT, it was therefore ignored.

IV. ANALYSIS AND INTERPRETATION

The initial reduced pressure and peak pressure Integrated Leak Rate Tests were successfully completed as a part of the Preoperational Test Program for the Waterford Steam Electric Station Unit No. 3 containment, between April 27, 1983 and May 1, 1983. The final mass point measured leakage rate at peak pressure was 0.066 percent per day with a 95 percent Upper Confidence Level of 0.068 percent per day. The acceptance criteria for this test is 0.375 percent per day or 75 percent of the containment design leakage rate.

The first section of the reduced pressure ILRT test plateau was containment atmospheric stabilization. As shown in Appendix A.1, temperature stabilization criteria of 0.5°F/hr rate of change difference between the last hour and the last four hours was met in four and one-quarter hours.

The reduced pressure ILRT measurements were taken for a twenty four hour period at fifteen minute intervals and are presented in Appendix A.2. Instrumentation performance was evaluated using the Ebasco in-situ Instrument Loop Performance calculation and compared to the predicted ISG calculation presented in Section III.B.5. The actual Instrumentation Loop Performance was calculated as 0.016 percent per day compared with the predicted ISG of 0.004 percent per day. A breakdown of the variables influencing total instrumentation performance is given below:

<u>Instrument loop</u>	<u>Predicted ISG</u>	<u>In-Situ Performance</u>
Pressure (psia)	+0.001	+0.004
Temperature (°F)	+0.008	+0.007
Humidity (%RH)	+0.032	+0.029
Total (%/day)	+0.004	+0.016

It is noted that the pressure loop exhibited slightly lower performance than was predicted and was the contributor to the in-situ performance being lower than predicted. Although this instrument performance is four times the predicted value, it is still below the industry recommended limit of 0.068 percent per day as presented in Section III.B.5. This instrument performance does not directly impact containment leakages, measured during the ILRT, but is evidenced in the calculation of the 95 percent Upper Confidence Level (UCL).

As shown in Appendix A.2, the reduced pressure ILRT results yielded a 0.002 percent per day fitted mass point leakage rate with a 0.008 percent per day UCL. The UCL is nominally above the measured leakage due to the instrumentation performance noted above. Both the measured leakage and the UCL are well below the acceptance criteria for this test of 0.265 percent per day. No instrument sensors were deleted during this portion of the test. No data samples were rejected using the Chauvenet criterion during this portion of the test.

Following the reduced pressure ILRT, the measured leakage of 0.002 percent per day was verified by a Controlled Leakage Rate Test (CLRT), which superimposed a calibrated leakage of 0.363 percent per day on the containment. The measured results of the CLRT fell well within the acceptance band for this portion of the test, as shown in Appendix A.3, and verified the results of the reduced pressure ILRT. The formulation of the acceptance band for the CLRT is shown in Appendix A.3. No instrument sensors were deleted during this portion of the test. No data samples were rejected using the Chauvenet criterion during this portion of the test.

The peak pressure ILRT test plateau met the temperature stabilization criteria in four hours. A graphic and tabulated presentation of the temperature stabilization is shown in Appendix b.1.

The peak pressure ILRT measurements were taken for a twenty four hour period at fifteen minute intervals and are presented in Appendix b.2. The previously noted failure of three of the forty RTD temperature sensors during this portion of the test required recalculation of the instrument ISG presented in Section III.B.5 to assure that adequate instrumentation sensitivity was still present. The Ebasco in-situ Instrument Performance calculations were also performed at peak pressure. A summary of these calculation follows:

	<u>Calculated Value</u>	<u>Maximum Acceptable</u>
Pre-Test ISG	0.002%/day	0.125%/day
Post-Test ISG	0.003%/day	0.125%/day
In-Situ Performance	0.003%/day	0.125%/day

It should be noted that the in-situ Instrument Performance Calculation agrees with the post-test ISG and does not exhibit the degraded performance noted in the reduced pressure ILRT. This is due to the noise present in the pressure sensor becoming relatively less important as the absolute pressure increased and the noise remained constant. The pressure sensor noise was also made less important by the higher pressure drop over the test period, resulting from the higher leakage rate exhibited at peak pressure.

As shown in Appendix B.2, the peak pressure ILRT results yielded a 0.066 percent per day fitted mass point leakage rate with a 0.068 percent per day UCL. Both the measured leakage and UCL are well below the acceptance criteria for this test of 0.375 percent per day. No data samples were rejected using the Chauvenet criterion during this portion of the test. Only the above noted three RTDs were deleted during this portion of the test.

Following the peak pressure ILRT, the measured leakage of 0.066 percent per day was verified during the peak pressure CLRT by superimposing a calibrated leakage of 0.499 percent per day on the containment. The measured

results of the CLRT fell well within the acceptance band for this portion of the test, as shown in Appendix B.3, and verify the results of the peak pressure ILRT. The formulation of the acceptance band for the CLRT is shown in Appendix B.3. The same three RTD temperature sensors, deleted during the peak pressure ILRT, were deleted from this test. No data samples were rejected using the Chauvenet criterion during this portion of the test.

The post-ILRT Local Leakage Rate Test results are discussed in Section III.E of this report. These results have no influence on the measured leakages of the ILRT.

To allow the option of performing a reduced pressure ILRT in future postoperational periodic tests, 10CFR50 Appendix J directs that the leakage acceptance criteria for a reduced pressure test be established by using the results of the preoperational reduced pressure and peak pressure ILRTs. The formulation of this acceptance criteria follows:

$$L_t = L_a (L_{tm}/L_{am})$$

$$L_t = 0.5 (0.002/0.066)$$

$$L_t = 0.015 \text{ percent per day}$$

$$P_t \geq 22 \text{ psig}$$

FIGURES

1. RTD Location and Volume
2. RHD Location and Volume
3. Flow Diagram for Pressure Sensing and Controlled Leakage
4. Flow Diagram for Pressurization System
5. Test Sequence

LOUISIANA POWER & LIGHT COMPANY
WATERFORD S. E. S. UNIT NO. 3
RTD LOCATION/VOLUME

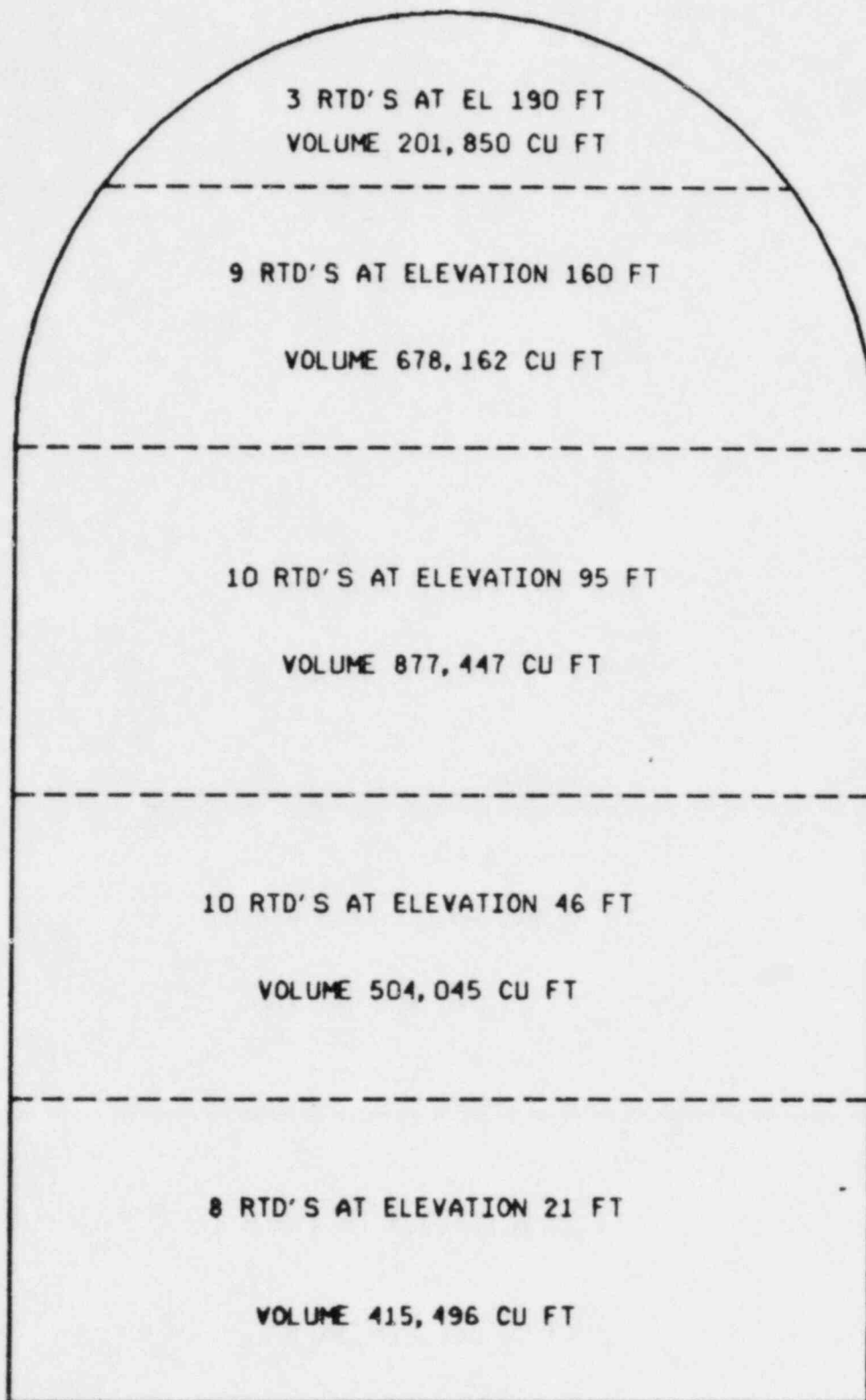


FIGURE 1

LOUISIANA POWER & LIGHT COMPANY
WATERFORD S.E.S. UNIT NO. 3
RHD LOCATION/VOLUME

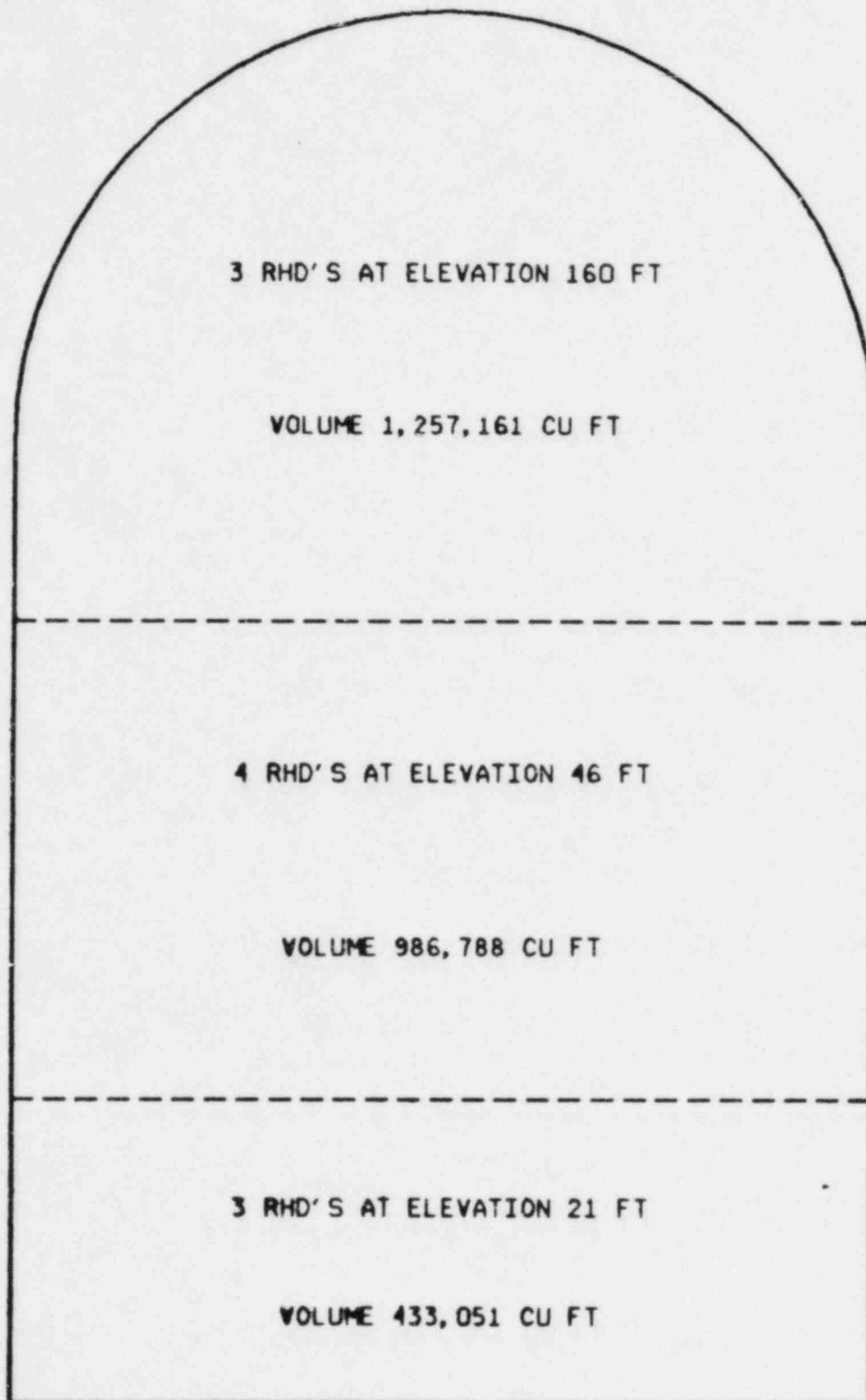
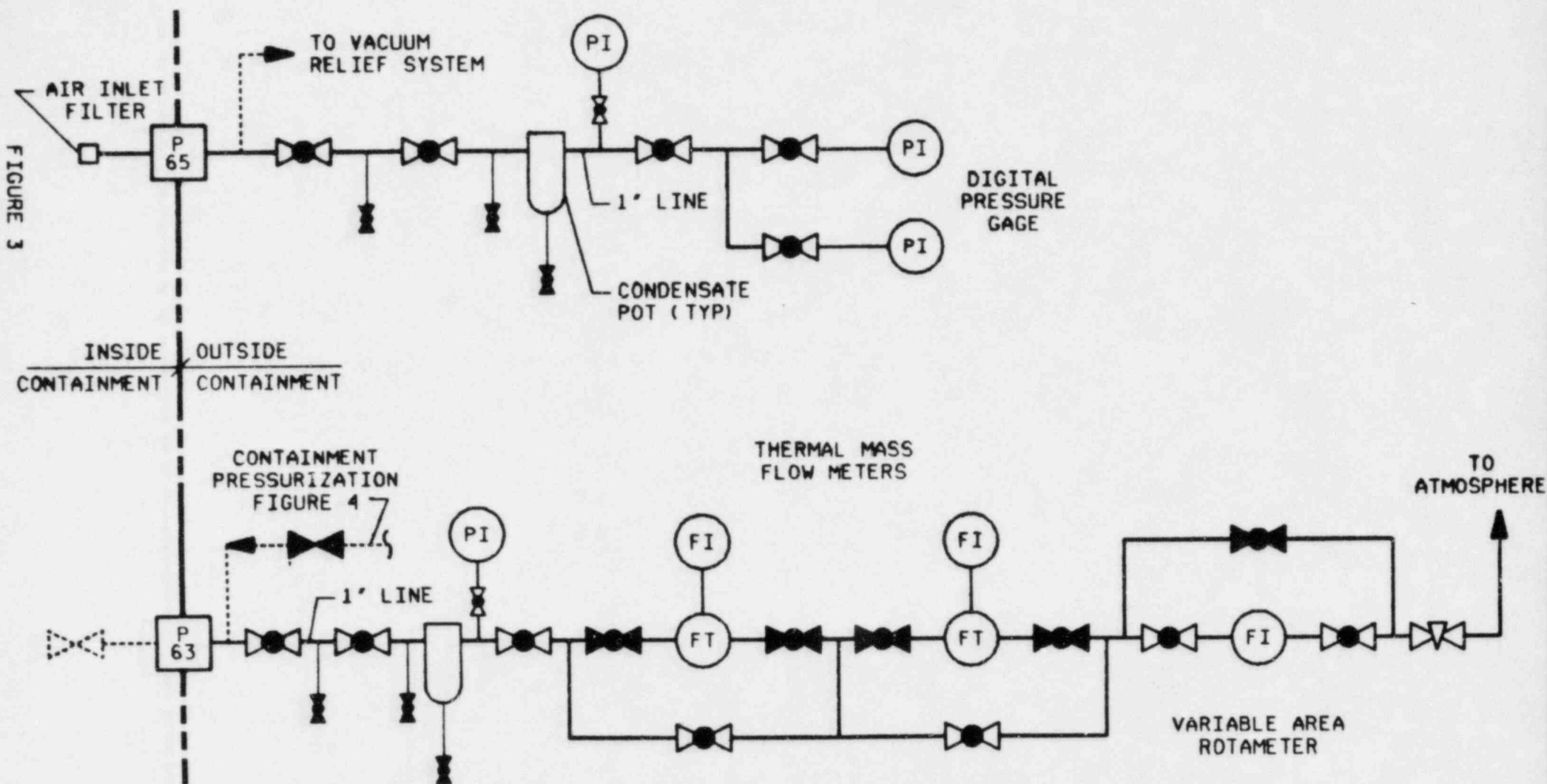


FIGURE 2

LOUISIANA POWER & LIGHT COMPANY
 WATERFORD S.E.S. UNIT NO. 3
 FLOW DIAGRAM

ILRT PRESSURE SENSING AND CONTROLLED LEAKAGE INST



LOUISIANA POWER & LIGHT COMPANY
 WATERFORD S.E.S. UNIT NO. 3
 !
 FLOW DIAGRAM
 ILRT PRESSURIZING AND DEPRESSURIZING SYSTEM

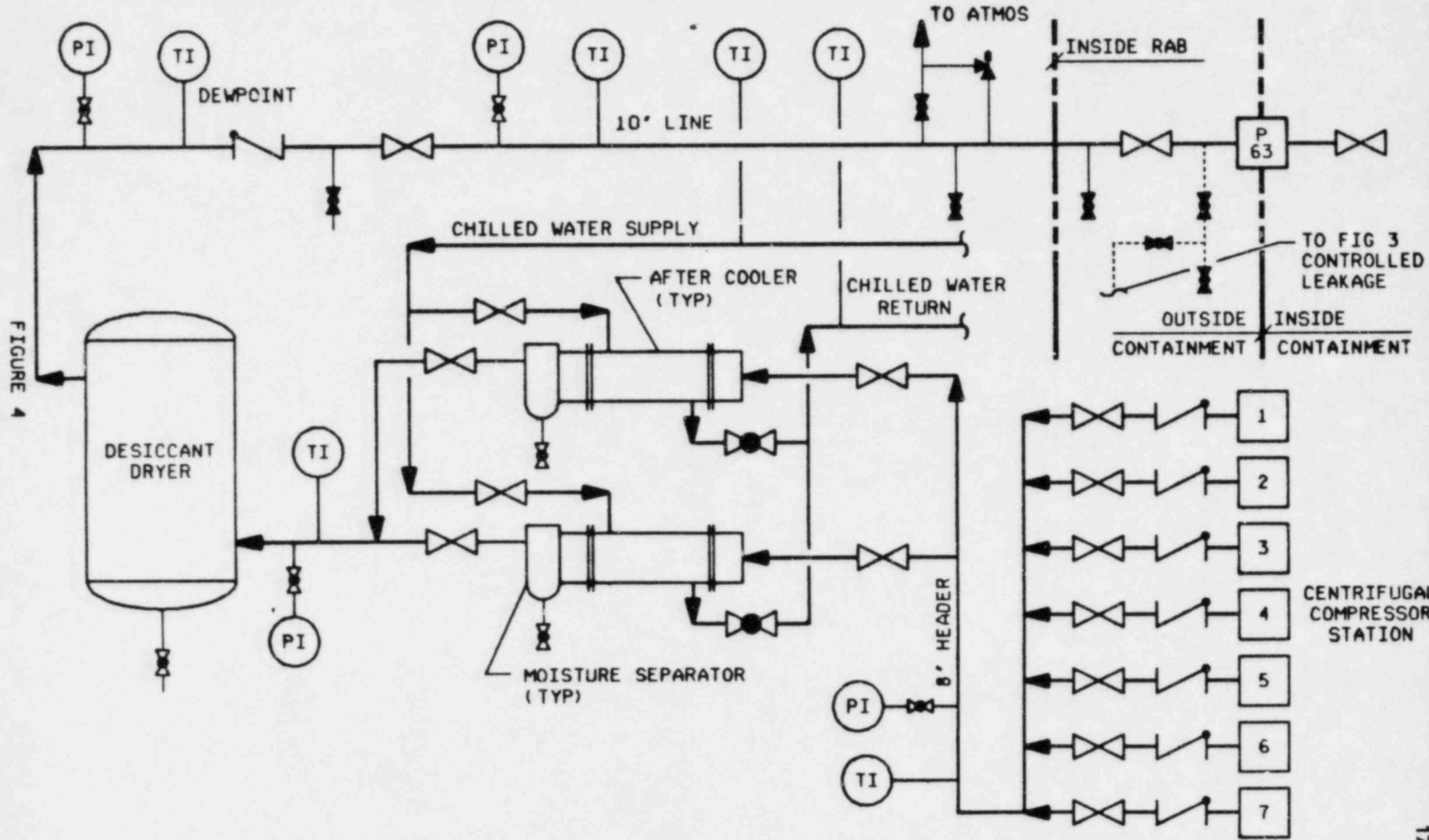


FIGURE 4

LOUISIANA POWER & LIGHT COMPANY WATERFORD S. E. S. UNIT NO. 3 ILRT TEST SEQUENCE

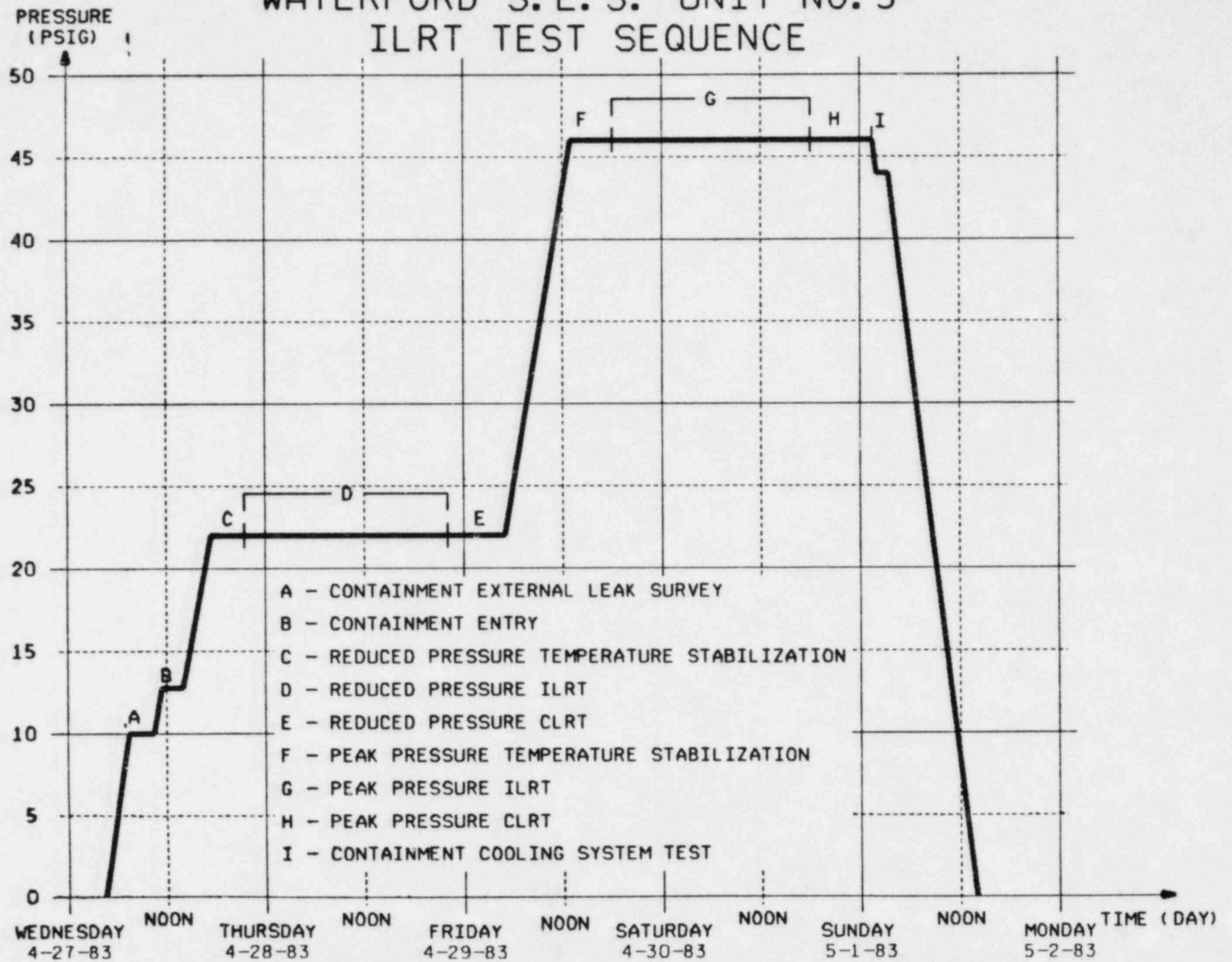


FIGURE 5

APPENDIX A.1

REDUCED PRESSURE ILRT
COMPUTER GENERATED REPORT
TEMPERATURE STABILIZATION

TEMPERATURE STABILIZATION
 STARTED AT 1730 HOURS ON APRIL 27, 1983
 CONDUCTED FOR 4.25 HOURS

A	B	C	D	E
1730	94.717			
1745	93.533			
1800	92.807			
1815	92.318			
1830	92.012			
1845	91.798			
1900	91.616			
1915	91.458			
1930	91.330			
1945	91.203			
2000	91.091			
2015	90.995			
2030	90.898			
2045	90.821			
2100	90.741			
2115	90.672			
2130	90.599	1.030	0.299	0.731
2145	90.532	0.750	0.289	0.461

A = TIME OF DAY IN MILITARY STANDARD

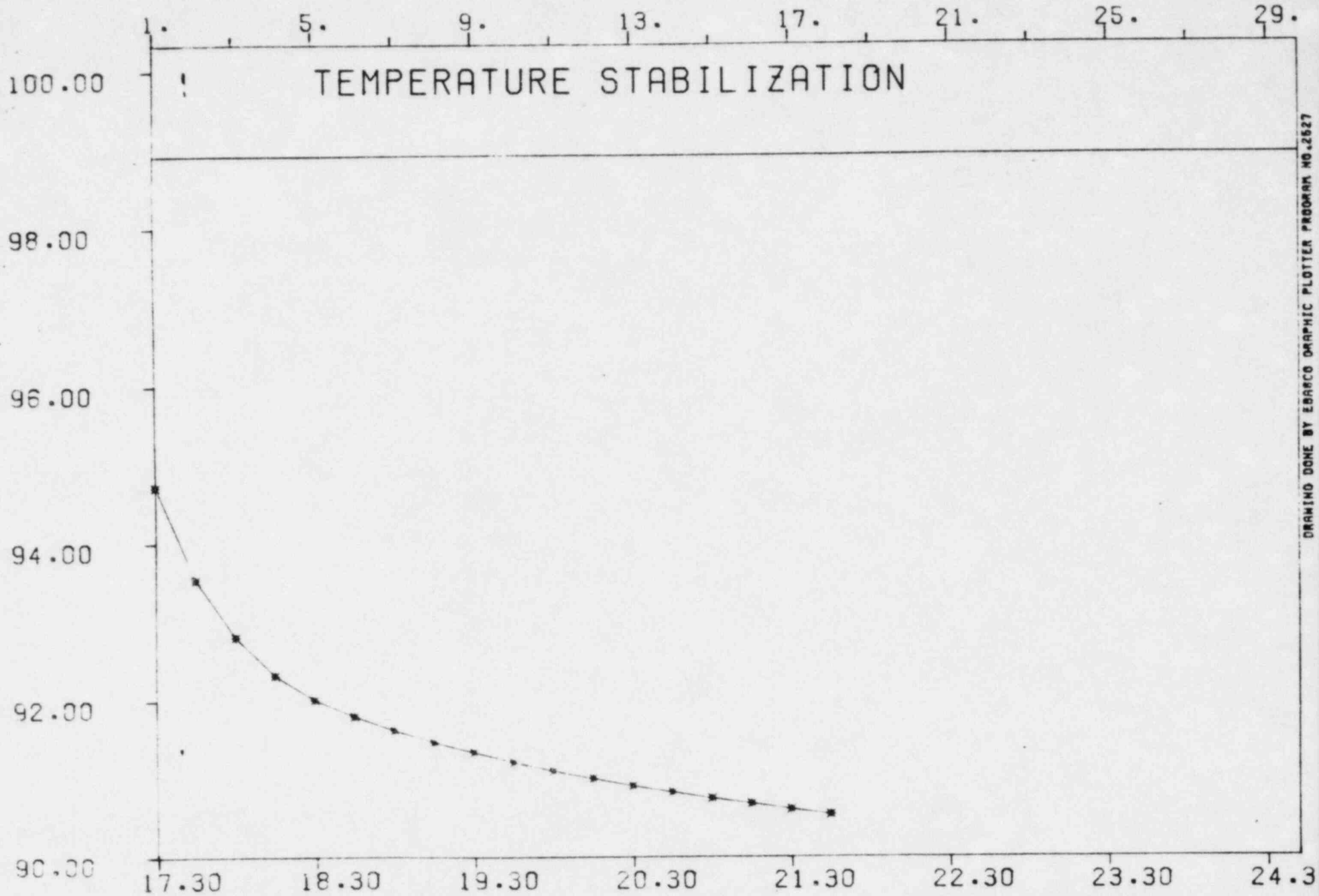
B = AVERAGE CONTAINMENT TEMPERATURE F

C = AVERAGE DIFFERENCE IN TEMP. OVER LAST 4 HOURS

D = AVERAGE DIFFERENCE IN TEMP. OVER LAST 1 HOUR

E = C - D

TEMPERATURE IN DEGREES FAHRENHEIT



TIME - HOURS (MILITARY STANDARD)

APPENDIX A.2.

REDUCED PRESSURE ILRT
COMPUTER GENERATED REPORT
INTEGRATED LEAKAGE RATE TEST
(ILRT)

LOUISIANA POWER & LIGHT COMPANY
WATERFORD SES UNIT NO. 3

CONTAINMENT INTEGRATED LEAKAGE RATE TEST
LEAKAGE RATE MEASURED USING THE ABSOLUTE METHOD
LEAKAGE RATE COMPUTED USING THE MASS POINT METHOD

TEST PERIOD STARTED AT 2200 HOURS ON APRIL 27, 1983
TEST CONDUCTED FOR 24.00 HOURS

FREE SPACE VOLUME OF CONTAINMENT IS 2677000 CU FT
CONTAINMENT WAS PRESSURIZED TO 37.65 PSIA

INITIAL CONTAINMENT AIR WEIGHT 492709.2 LBS
FINAL CONTAINMENT AIR WEIGHT 492641.4 LBS
FITTED MASS POINT LEAKAGE RATE IS 0.0022 % PER DAY
UPPER LIMIT OF 95% CONFIDENCE LEVEL IS 0.008 % PER DAY
NRC MAXIMUM ALLOWABLE LEAKAGE RATE IS 0.265 % PER DAY

DESCRIPTION OF VARIABLES

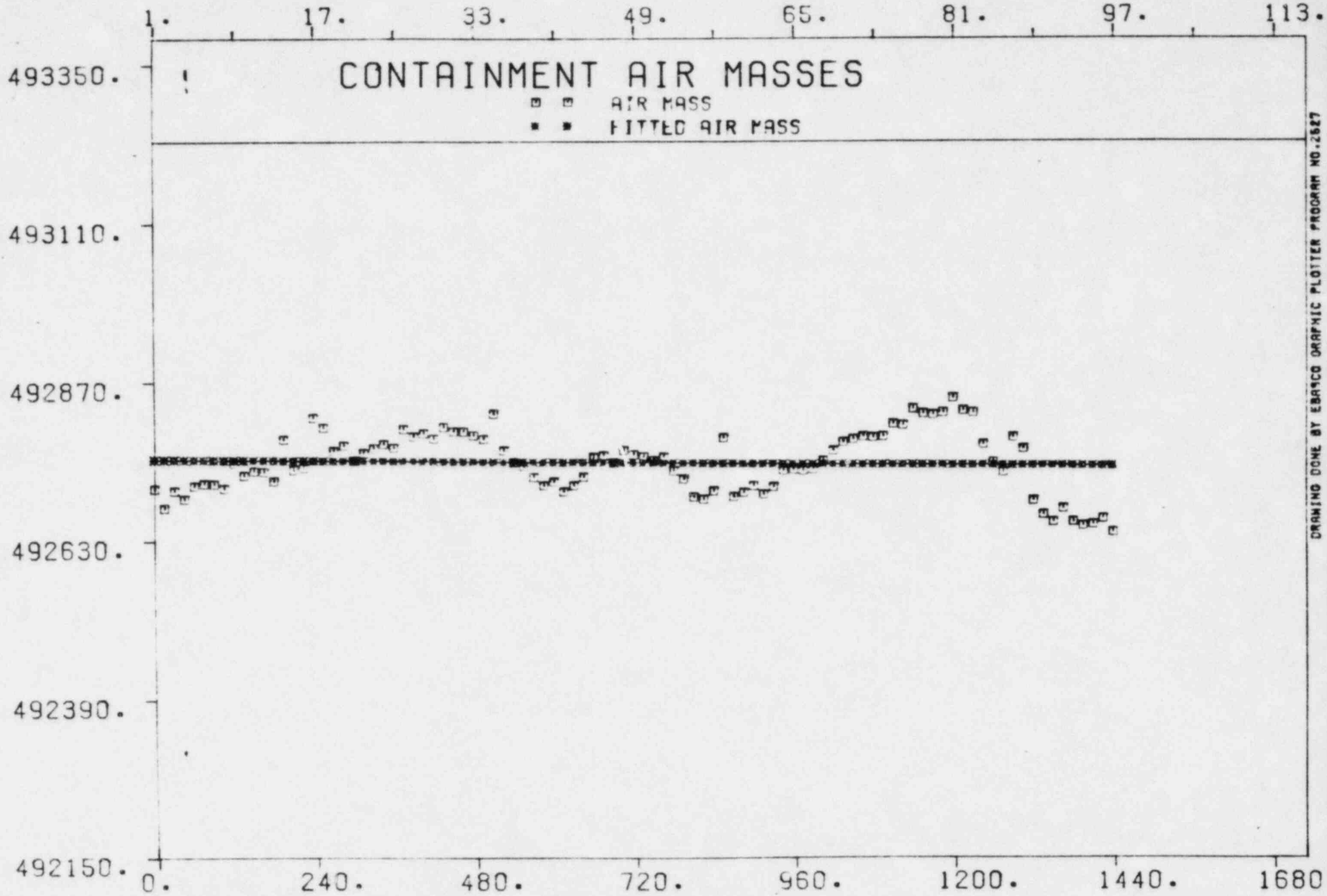
AVG. TEM - CONTAINMENT MEAN TEMPERATURE CALCULATED
FROM VOLUMETRICALLY WEIGHTED RTD SENSOR INDICATIONS.
AVE. PRE - PRIMARY CONTAINMENT PRESSURE INDICATION.
VAP. PRE - CONTAINMENT VAPOR PRESSURE CALCULATED
FROM VOLUMETRICALLY WEIGHTED RHD SENSOR INDICATIONS.
LEAK SIM - SIMPLE TOTAL TIME LEAKAGE RATE.
LEAK MAS - LEAKAGE RATE COMPUTED FROM FIRST ORDER
REGRESSION OF AIR MASS DATA.
AIR MASS - CONTAINMENT AIR MASS.

NOTE FOR TABULAR DATA -
TABLE VALUES OF ZERO SIGNIFY DATA IS
NOT APPLICABLE TO THE CALCULATION.

NOTE FOR CURVES -

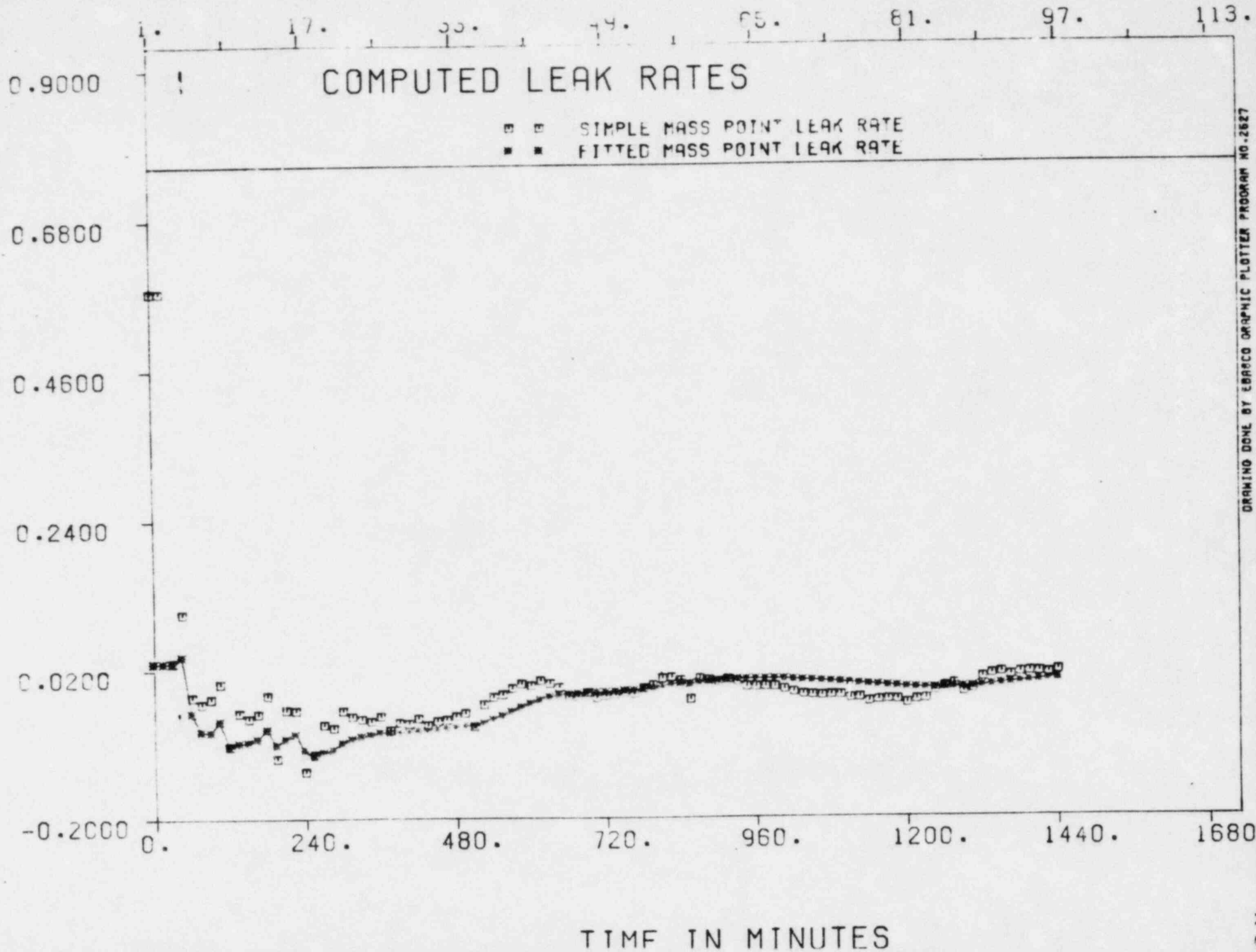
1. TOP ABSCISSA SCALE REPRESENTS SAMPLE NUMBERS.
2. AIR MASS IS THE CALCULATED CONTAINMENT AIR MASS AND FITTED AIR MASS IS THE LINEAR LEAST SQUARE FIT OF THE AIR MASSES.
3. SIMPLE MASS POINT IS THE TOTAL TIME LEAKAGE RATE AND FITTED MASS POINT IS THE LEAKAGE RATE COMPUTED FROM FIRST ORDER REGRESSION OF AIR MASS DATA.
4. UCL IS THE UPPER LIMIT OF THE 95% CONFIDENCE LEVEL OF AIR MASS DATA.

CONTAINMENT AIR MASS (LBS)



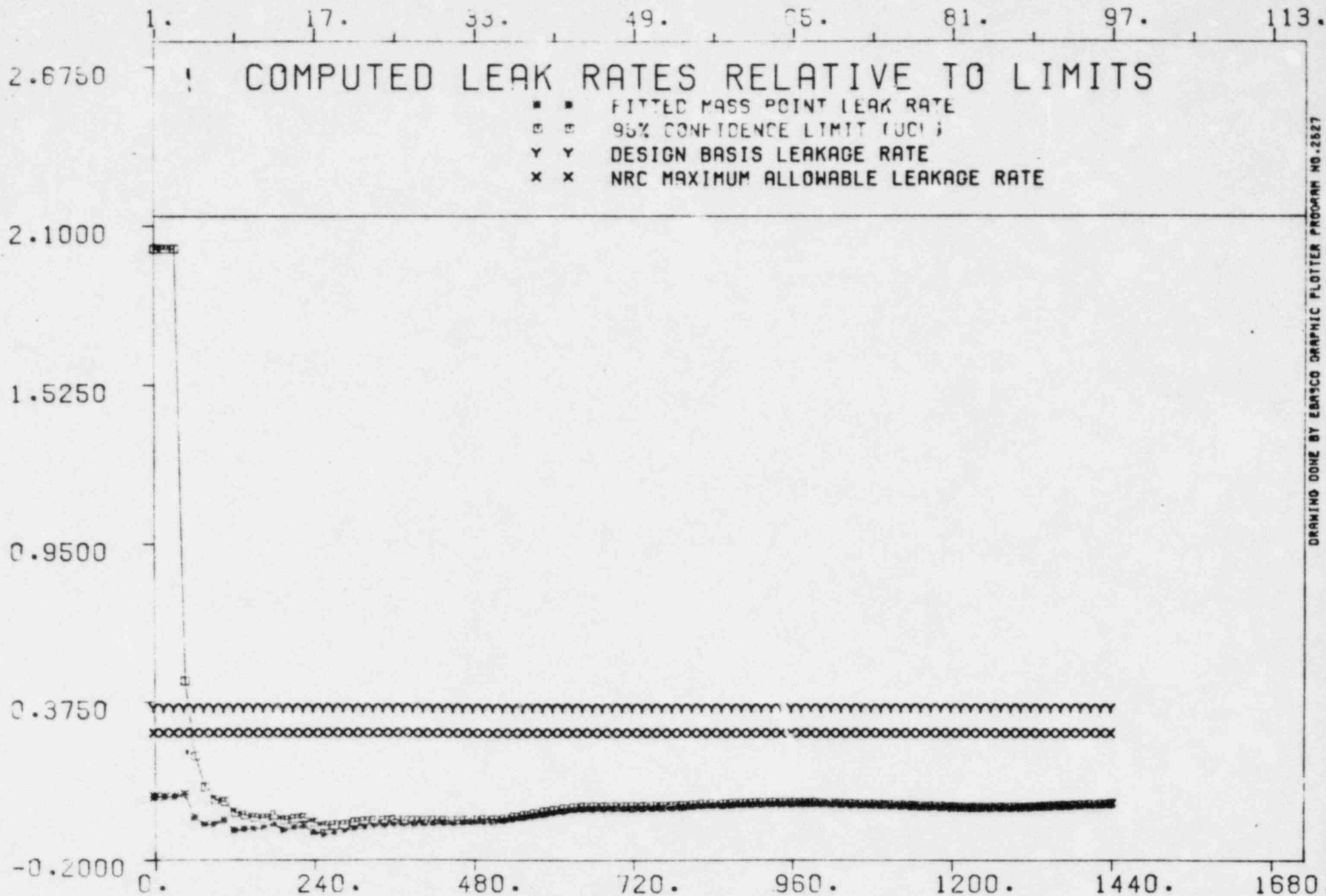
TIME IN MINUTES

PER CENT PER DAY BY WEIGHT



DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM NO. 2827

PER CENT PER DAY BY WEIGHT

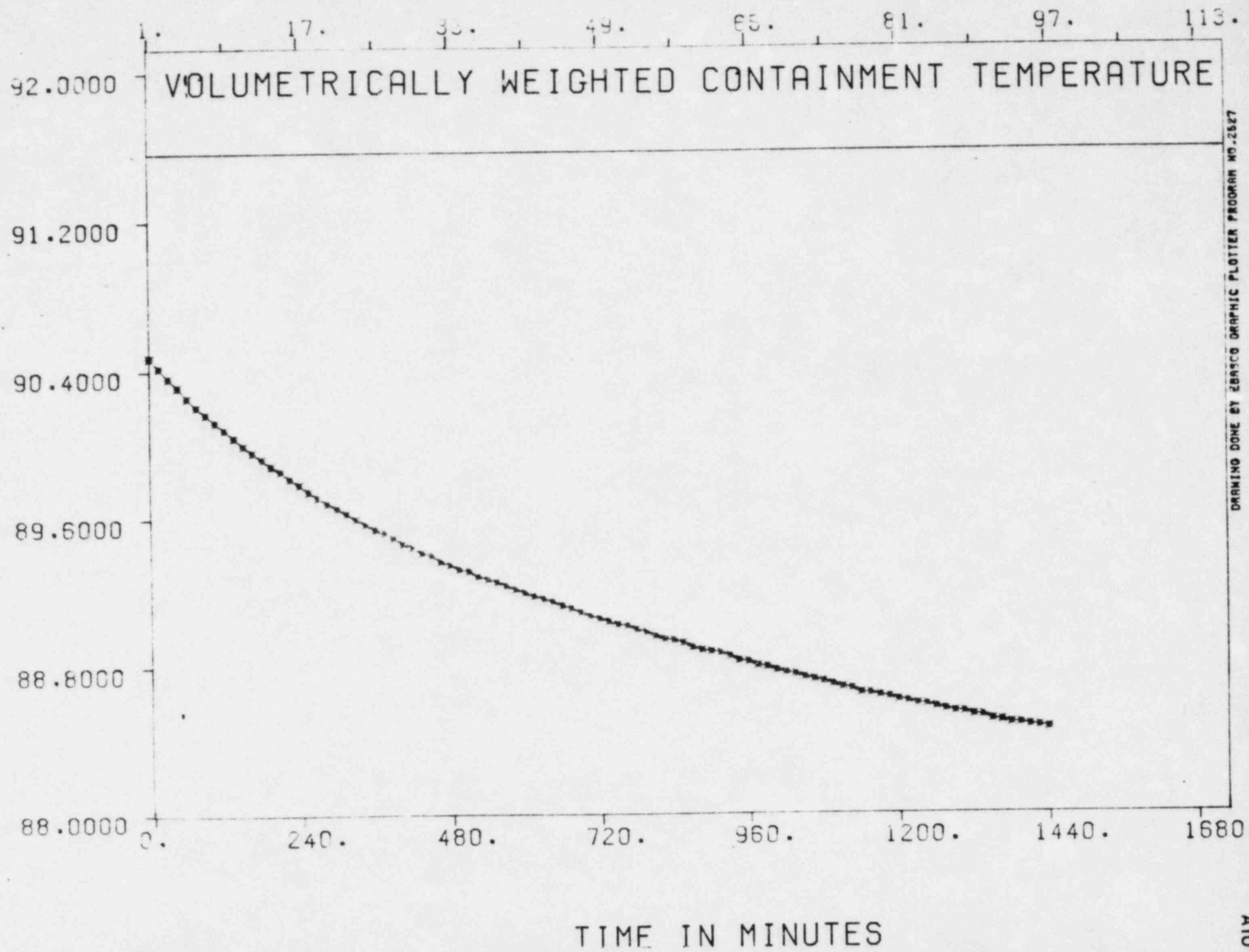


DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM NO. 2527

TIME IN MINUTES

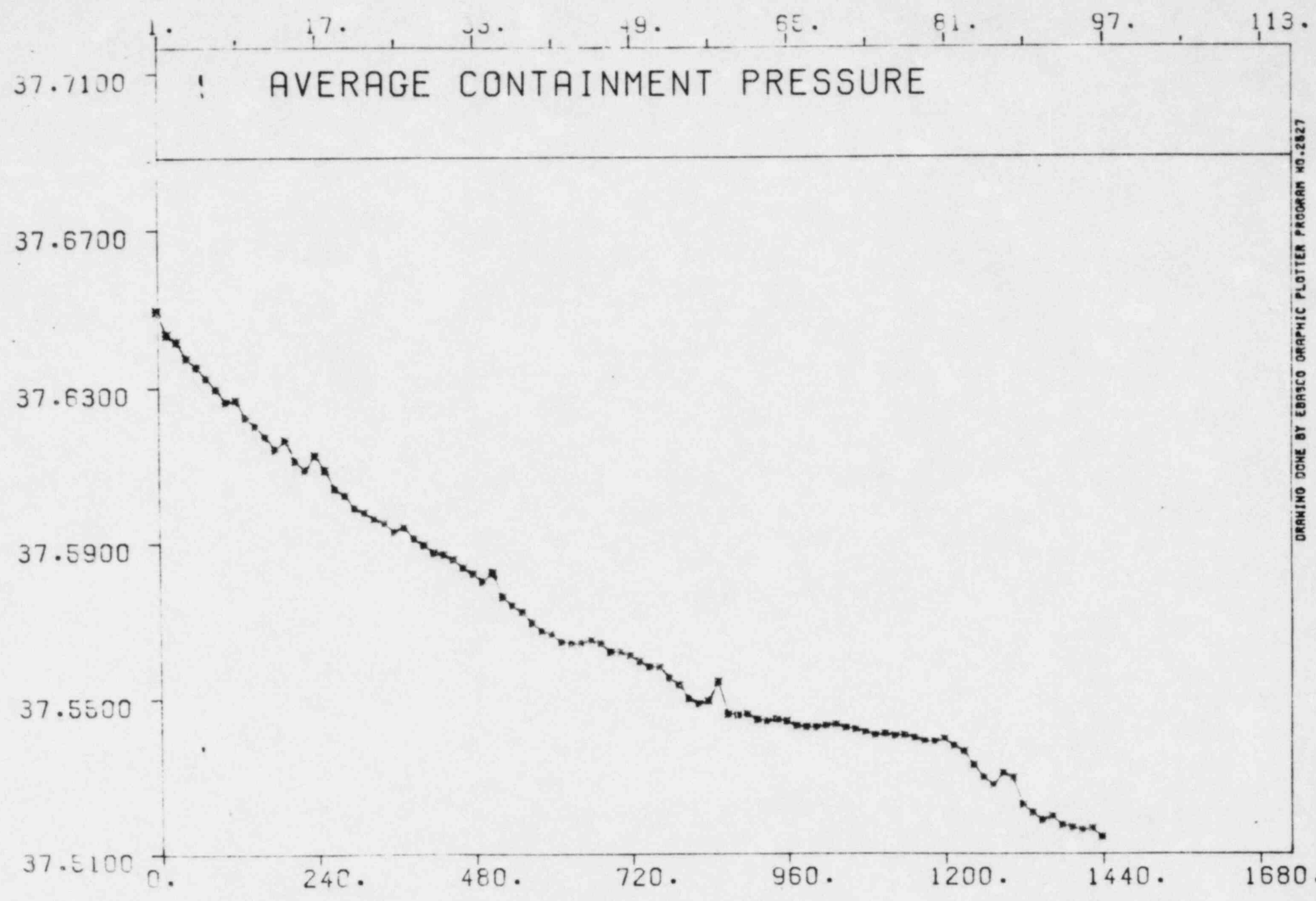
5 Y

TEMPERATURE IN DEGREES FAHRENHEIT



DRAWING DONE BY EDMCO GRAPHIC PLOTTER PROGRAM NO. 2527

PRESSURE IN PSIA

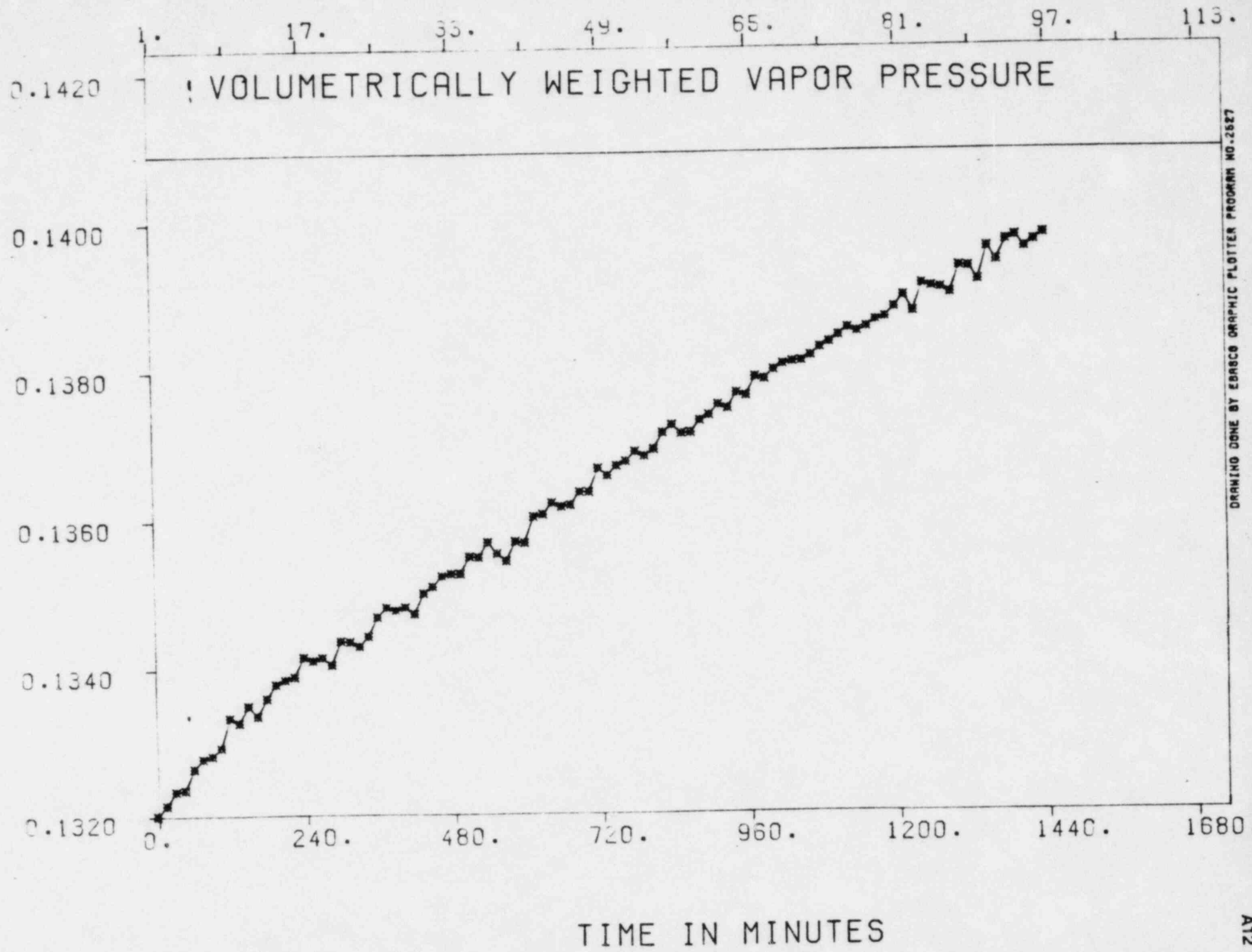


TIME IN MINUTES

DRAWING DONE BY EBRSCO GRAPHIC PLOTTER PROGRAM NO.2827

AT

VAPOR PRESSURE IN PSIA



DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM NO. 2527

TIME IN MINUTES

VARIABLE TABLE SUMMARY

AMPLE NUMBER	DELTA MINS	AVG. TEM DEG. F	AVG. PRE PSIA	VAP. PRE PSIA	LEAK SIM PER CENT	LEAK MAS PER CENT	AIR MASS POUNDS
1	0	90.473	37.6494	0.1320	0.000	0.000	492709
2	15	90.417	37.6434	0.1321	0.575	0.000	492680
3	30	90.360	37.6418	0.1323	0.031	0.031	492706
4	45	90.311	37.6375	0.1324	0.102	0.040	492694
5	60	90.253	37.6353	0.1324	-0.020	-0.043	492713
6	75	90.204	37.6324	0.1328	-0.030	-0.070	492717
7	90	90.163	37.6296	0.1328	-0.023	-0.071	492716
8	105	90.120	37.6263	0.1329	-0.001	-0.055	492710
9	120	90.079	37.6268	0.1333	-0.093	-0.093	492747
10	135	90.035	37.6223	0.1333	-0.043	-0.088	492729
11	150	89.991	37.6201	0.1335	-0.052	-0.087	492736
12	165	89.955	37.6173	0.1334	-0.045	-0.082	492735
13	180	89.918	37.6140	0.1336	-0.018	-0.067	492720
14	195	89.881	37.6164	0.1338	-0.111	-0.091	492783
15	210	89.853	37.6111	0.1339	-0.039	-0.082	492737
16	225	89.814	37.6087	0.1339	-0.040	-0.075	492740
17	240	89.782	37.6126	0.1342	-0.130	-0.098	492816
18	255	89.745	37.6088	0.1341	-0.105	-0.107	492801
19	270	89.714	37.6041	0.1342	-0.061	-0.102	492766
20	285	89.681	37.6024	0.1341	-0.067	-0.098	492774
21	300	89.654	37.5991	0.1344	-0.041	-0.088	492751
22	315	89.625	37.5979	0.1344	-0.050	-0.083	492763
23	330	89.594	37.5963	0.1343	-0.053	-0.079	492770
24	345	89.568	37.5951	0.1344	-0.056	-0.077	492776
25	360	89.537	37.5929	0.1347	-0.049	-0.073	492770
26	375	89.520	37.5940	0.1348	-0.070	-0.074	492799
27	390	89.492	37.5912	0.1348	-0.059	-0.073	492787
28	405	89.462	37.5896	0.1348	-0.060	-0.072	492792
29	420	89.443	37.5876	0.1347	-0.052	-0.070	492784
30	435	89.413	37.5871	0.1350	-0.062	-0.069	492801
31	450	89.401	37.5859	0.1351	-0.056	-0.068	492795
32	465	89.368	37.5838	0.1352	-0.054	-0.067	492795
33	480	89.351	37.5822	0.1353	-0.049	-0.065	492789
34	495	89.326	37.5801	0.1353	-0.044	-0.062	492784
35	510	89.315	37.5825	0.1355	-0.065	-0.063	492822
36	525	89.286	37.5763	0.1355	-0.032	-0.059	492766
37	540	89.272	37.5741	0.1357	-0.021	-0.053	492748
38	555	89.256	37.5724	0.1355	-0.017	-0.048	492742
39	570	89.236	37.5697	0.1354	-0.009	-0.042	492726
40	585	89.215	37.5676	0.1357	-0.002	-0.036	492713
41	600	89.196	37.5668	0.1357	-0.005	-0.031	492719
42	615	89.178	37.5647	0.1360	0.002	-0.025	492704
43	630	89.162	37.5643	0.1361	-0.002	-0.021	492713
44	645	89.146	37.5644	0.1362	-0.008	-0.018	492726
45	660	89.125	37.5651	0.1362	-0.021	-0.017	492756
46	675	89.110	37.5643	0.1362	-0.021	-0.017	492758
47	690	89.087	37.5621	0.1364	-0.016	-0.015	492747
48	705	89.067	37.5622	0.1364	-0.024	-0.015	492766
49	720	89.056	37.5613	0.1367	-0.021	-0.015	492760
50	735	89.039	37.5598	0.1366	-0.019	-0.014	492757

VARIABLE TABLE SUMMARY (CONTINUED)

SAMPLE NUMBER	DELTA MINS	AUG. TEM DEG. F	AUG. PRE PSIA	VAP. PRE PSIA	LEAK SIM PER CENT	LEAK MAS PER CENT	AIR MASS POUNDS
51	750	89.022	37.5583	0.1367	-0.016	-0.013	492751
52	765	89.015	37.5583	0.1368	-0.018	-0.012	492756
53	780	88.994	37.5554	0.1369	-0.010	-0.011	492735
54	795	88.983	37.5536	0.1368	-0.005	-0.009	492723
55	810	88.959	37.5501	0.1369	0.005	-0.007	492696
56	825	88.941	37.5489	0.1371	0.006	-0.004	492692
57	840	88.935	37.5494	0.1372	0.002	-0.002	492705
58	855	88.920	37.5544	0.1371	-0.026	-0.004	492785
59	870	88.896	37.5460	0.1371	0.004	-0.002	492696
60	885	88.881	37.5456	0.1373	0.002	-0.000	492703
61	900	88.873	37.5459	0.1374	-0.001	0.001	492713
62	915	88.865	37.5446	0.1375	0.003	0.002	492700
63	930	88.847	37.5441	0.1375	-0.001	0.003	492711
64	945	88.824	37.5446	0.1377	-0.008	0.003	492736
65	960	88.817	37.5442	0.1376	-0.009	0.003	492737
66	975	88.797	37.5429	0.1379	-0.008	0.004	492736
67	990	88.790	37.5426	0.1378	-0.008	0.004	492738
68	1005	88.772	37.5425	0.1380	-0.012	0.003	492750
69	1020	88.760	37.5429	0.1380	-0.016	0.003	492766
70	1035	88.751	37.5433	0.1381	-0.020	0.002	492779
71	1050	88.734	37.5425	0.1381	-0.021	0.001	492783
72	1065	88.722	37.5421	0.1382	-0.021	-0.000	492787
73	1080	88.711	37.5413	0.1383	-0.021	-0.001	492786
74	1095	88.697	37.5405	0.1383	-0.021	-0.002	492787
75	1110	88.680	37.5409	0.1384	-0.025	-0.003	492806
76	1125	88.672	37.5403	0.1385	-0.025	-0.004	492804
77	1140	88.649	37.5405	0.1385	-0.031	-0.005	492828
78	1155	88.646	37.5398	0.1385	-0.028	-0.006	492821
79	1170	88.633	37.5389	0.1386	-0.028	-0.007	492820
80	1185	88.627	37.5388	0.1387	-0.028	-0.008	492823
81	1200	88.611	37.5395	0.1388	-0.033	-0.010	492845
82	1215	88.603	37.5377	0.1390	-0.028	-0.011	492826
83	1230	88.588	37.5362	0.1387	-0.027	-0.011	492823
84	1245	88.585	37.5327	0.1391	-0.015	-0.011	492775
85	1260	88.569	37.5296	0.1391	-0.009	-0.011	492748
86	1275	88.557	37.5276	0.1391	-0.005	-0.010	492733
87	1290	88.544	37.5306	0.1390	-0.017	-0.010	492785
88	1305	88.542	37.5295	0.1393	-0.013	-0.010	492768
89	1320	88.526	37.5224	0.1393	0.004	-0.009	492690
90	1335	88.523	37.5204	0.1392	0.009	-0.007	492668
91	1350	88.500	37.5185	0.1396	0.011	-0.005	492657
92	1365	88.494	37.5194	0.1394	0.007	-0.004	492678
93	1380	88.480	37.5173	0.1397	0.011	-0.003	492658
94	1395	88.478	37.5167	0.1397	0.012	-0.001	492651
95	1410	88.468	37.5160	0.1396	0.012	-0.000	492653
96	1425	88.462	37.5164	0.1397	0.010	0.001	492662
97	1440	88.453	37.5143	0.1398	0.014	0.002	492641

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	TEMP 1		TEMP 2		TEMP 3		TEMP 4		TEMP 5		TEMP 6	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
1	0	90.403		90.396		90.445		90.538		90.533		90.923	
2	15	90.342		90.314		90.379		90.461		90.472		90.868	
3	30	90.281		90.259		90.313		90.396		90.418		90.802	
4	45	90.243		90.193		90.264		90.335		90.379		90.802	
5	60	90.160		90.127		90.198		90.269		90.308		90.681	
6	75	90.105		90.066		90.137		90.220		90.264		90.731	
7	90	90.050		90.022		90.088		90.165		90.187		90.681	
8	105	89.984		89.978		90.027		90.099		90.137		90.604	
9	120	89.940		89.946		89.995		90.049		90.099		90.527	
10	135	89.918		89.869		89.934		90.027		90.060		90.461	
11	150	89.852		89.820		89.896		89.984		90.011		90.420	
12	165	89.819		89.788		89.841		89.934		89.951		90.418	
13	180	89.775		89.771		89.803		89.885		89.907		90.363	
14	195	89.764		89.733		89.765		89.868		89.885		90.412	
15	210	89.698		89.695		89.716		89.819		89.835		90.231	
16	225	89.671		89.641		89.677		89.775		89.808		90.297	
17	240	89.632		89.586		89.639		89.737		89.786		90.258	
18	255	89.600		89.565		89.623		89.709		89.742		90.214	
19	270	89.561		89.548		89.601		89.682		89.704		90.066	
20	285	89.517		89.494		89.540		89.643		89.665		90.082	
21	300	89.506		89.488		89.530		89.616		89.649		89.995	
22	315	89.451		89.428		89.486		89.572		89.605		90.066	
23	330	89.446		89.407		89.453		89.561		89.589		89.901	
24	345	89.408		89.407		89.420		89.528		89.550		90.000	
25	360	89.397		89.385		89.387		89.468		89.512		89.819	
26	375	89.347		89.330		89.365		89.473		89.495		89.835	
27	390	89.320		89.320		89.354		89.446		89.446		89.901	
28	405	89.298		89.232		89.316		89.391		89.440		89.863	
29	420	89.265		89.260		89.294		89.397		89.413		89.885	
30	435	89.248		89.232		89.240		89.358		89.364		89.747	
31	450	89.216		89.211		89.240		89.336		89.369		89.819	
32	465	89.194		89.183		89.196		89.298		89.336		89.769	
33	480	89.177		89.162		89.190		89.292		89.325		89.775	
34	495	89.155		89.129		89.136		89.270		89.303		89.687	
35	510	89.122		89.173		89.125		89.243		89.270		89.544	
36	525	89.106		89.107		89.136		89.227		89.243		89.615	
37	540	89.078		89.075		89.081		89.188		89.238		89.670	
38	555	89.046		89.053		89.070		89.177		89.177		89.637	
39	570	89.040		89.015		89.037		89.150		89.183		89.593	
40	585	89.018		89.015		89.026		89.133		89.172		89.500	
41	600	88.985		88.982		88.999		89.106		89.122		89.599	
42	615	88.969		88.977		88.993		89.084		89.095		89.505	
43	630	88.952		88.955		88.983		89.078		89.095		89.451	
44	645	88.919		88.917		88.933		89.051		89.057		89.500	
45	660	88.903		88.922		88.922		89.035		89.035		89.412	
46	675	88.875		88.873		88.906		89.007		89.051		89.423	
47	690	88.854		88.846		88.873		88.985		89.024		89.374	
48	705	88.837		88.813		88.862		88.947		88.969		89.429	
49	720	88.832		88.813		88.873		88.952		88.958		89.385	
50	735	88.821		88.813		88.851		88.925		88.963		89.363	

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE NUMBER	DELTA MINS	TEMP 1		TEMP 2		TEMP 3		TEMP 4		TEMP 5		TEMP 6	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
51	750	88.810		88.770		88.829		88.919		88.925		89.346	
52	765	88.782		88.764		88.786		88.903		88.919		89.269	
53	780	88.760		88.726		88.775		88.886		88.919		89.192	
54	795	88.744		88.721		88.747		88.859		88.892		89.286	
55	810	88.711		88.704		88.747		88.832		88.848		89.220	
56	825	88.683		88.677		88.747		88.815		88.832		89.181	
57	840	88.683		88.672		88.709		88.810		88.821		89.214	
58	855	88.673		88.672		88.704		88.815		88.826		89.137	
59	870	88.667		88.661		88.649		88.799		88.810		89.088	
60	885	88.634		88.606		88.649		88.749		88.760		89.159	
61	900	88.634		88.628		88.621		88.749		88.744		89.148	
62	915	88.629		88.596		88.632		88.727		88.727		89.203	
63	930	88.585		88.579		88.621		88.722		88.733		89.143	
64	945	88.574		88.552		88.589		88.705		88.705		89.126	
65	960	88.557		88.541		88.600		88.683		88.689		89.060	
66	975	88.541		88.530		88.556		88.673		88.678		89.093	
67	990	88.530		88.536		88.534		88.656		88.656		88.984	
68	1005	88.486		88.530		88.550		88.634		88.634		89.000	
69	1020	88.486		88.508		88.501		88.612		88.634		89.000	
70	1035	88.475		88.470		88.523		88.601		88.618		88.989	
71	1050	88.470		88.454		88.485		88.590		88.607		89.055	
72	1065	88.453		88.454		88.468		88.579		88.590		89.033	
73	1080	88.420		88.443		88.474		88.557		88.557		88.984	
74	1095	88.409		88.410		88.452		88.530		88.552		88.951	
75	1110	88.393		88.367		88.425		88.535		88.513		89.071	
76	1125	88.387		88.405		88.430		88.535		88.524		88.874	
77	1140	88.371		88.383		88.419		88.497		88.497		88.835	
78	1155	88.365		88.329		88.414		88.491		88.497		88.890	
79	1170	88.343		88.361		88.359		88.464		88.491		88.885	
80	1185	88.332		88.356		88.342		88.464		88.464		88.841	
81	1200	88.332		88.318		88.337		88.448		88.475		88.824	
82	1215	88.316		88.291		88.321		88.431		88.437		88.945	
83	1230	88.300		88.290		88.321		88.426		88.426		88.890	
84	1245	88.283		88.291		88.304		88.404		88.420		88.918	
85	1260	88.272		88.258		88.288		88.393		88.393		88.857	
86	1275	88.256		88.236		88.277		88.376		88.365		88.846	
87	1290	88.250		88.263		88.266		88.376		88.393		88.791	
88	1305	88.256		88.231		88.260		88.365		88.376		88.857	
89	1320	88.228		88.220		88.266		88.365		88.371		88.764	
90	1335	88.223		88.274		88.255		88.349		88.354		88.703	
91	1350	88.212		88.204		88.239		88.332		88.305		88.676	
92	1365	88.201		88.209		88.222		88.310		88.343		88.692	
93	1380	88.179		88.214		88.222		88.300		88.338		88.643	
94	1395	88.184		88.209		88.244		88.283		88.294		88.676	
95	1410	88.168		88.149		88.189		88.294		88.278		88.797	
96	1425	88.151		88.144		88.195		88.283		88.289		88.731	
97	1440	88.146		88.133		88.178		88.272		88.283		88.709	

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP 7 DEG. F	TEMP 8 DEG. F	TEMP 9 DEG. F	TEMP 10 DEG. F	TEMP 11 DEG. F	TEMP 12 DEG. F
1	0	90.220	90.434	90.346	90.802	90.570	90.527
2	15	90.143	90.352	90.291	90.769	90.521	90.385
3	30	90.099	90.291	90.236	90.648	90.395	90.253
4	45	90.039	90.231	90.137	90.609	90.373	90.236
5	60	89.956	90.165	90.093	90.527	90.307	90.220
6	75	89.913	90.126	90.027	90.483	90.241	90.099
7	90	89.864	90.077	89.978	90.423	90.181	90.082
8	105	89.804	90.017	89.929	90.390	90.164	90.066
9	120	89.777	89.978	89.885	90.373	90.110	90.038
10	135	89.733	89.929	89.819	90.231	90.088	90.006
11	150	89.668	89.913	89.808	90.209	89.967	89.880
12	165	89.657	89.848	89.765	90.115	89.967	89.886
13	180	89.603	89.820	89.726	90.187	89.940	89.842
14	195	89.543	89.788	89.688	90.099	89.902	89.777
15	210	89.532	89.744	89.660	90.060	89.875	89.771
16	225	89.472	89.679	89.600	90.000	89.826	89.641
17	240	89.445	89.646	89.551	89.973	89.777	89.619
18	255	89.412	89.619	89.535	89.984	89.745	89.641
19	270	89.374	89.575	89.458	89.946	89.718	89.597
20	285	89.336	89.559	89.463	89.896	89.642	89.477
21	300	89.309	89.537	89.403	89.837	89.636	89.553
22	315	89.287	89.494	89.398	89.744	89.636	89.423
23	330	89.255	89.472	89.381	89.809	89.501	89.444
24	345	89.222	89.472	89.310	89.700	89.528	89.423
25	360	89.206	89.401	89.294	89.689	89.506	89.428
26	375	89.140	89.385	89.299	89.711	89.501	89.417
27	390	89.129	89.358	89.244	89.662	89.430	89.450
28	405	89.102	89.325	89.228	89.613	89.446	89.341
29	420	89.070	89.325	89.233	89.657	89.327	89.270
30	435	89.070	89.265	89.184	89.499	89.397	89.199
31	450	89.032	89.260	89.140	89.651	89.370	89.297
32	465	89.021	89.227	89.113	89.608	89.316	89.243
33	480	88.983	89.227	89.102	89.548	89.273	89.178
34	495	88.972	89.211	89.080	89.450	89.278	89.163
35	510	88.966	89.162	89.064	89.450	89.197	89.118
36	525	88.923	89.140	89.047	89.439	89.186	89.112
37	540	88.885	89.118	89.009	89.460	89.153	89.041
38	555	88.885	89.102	88.981	89.417	89.202	89.101
39	570	88.847	89.091	88.959	89.395	89.159	89.058
40	585	88.814	89.036	88.927	89.390	89.137	89.080
41	600	88.803	89.042	88.899	89.308	89.104	89.058
42	615	88.787	88.998	88.916	89.373	89.099	89.009
43	630	88.760	88.998	88.877	89.352	89.055	88.981
44	645	88.770	88.982	88.855	89.302	89.066	88.987
45	660	88.716	88.949	88.834	89.204	89.072	88.900
46	675	88.689	88.922	88.817	89.199	89.061	88.981
47	690	88.678	88.911	88.828	89.281	88.925	88.889
48	705	88.667	88.884	88.795	89.215	88.979	88.845
49	720	88.651	88.884	88.784	89.215	88.931	88.834
50	735	88.656	88.851	88.757	89.183	88.941	88.785

VARIABLE TABLE SUMMARY (CONTINUED)

MPLE MBER	DELTA MINS	TEMP 7		TEMP 8		TEMP 9		TEMP 10		TEMP 11		TEMP 12	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
51	750	88.629		88.824		88.740		89.177		88.398		88.753	
52	765	88.618		88.835		88.713		89.128		88.963		88.834	
53	780	88.558		88.819		88.697		89.079		88.882		88.780	
54	795	88.591		88.770		88.658		89.123		88.893		88.775	
55	810	88.558		88.753		88.658		89.101		88.887		88.764	
56	825	88.564		88.743		88.642		89.014		88.882		88.775	
57	840	88.520		88.743		88.631		89.025		88.838		88.775	
58	855	88.515		88.726		88.631		89.095		88.838		88.715	
59	870	88.487		88.726		88.593		89.025		88.751		88.589	
60	885	88.482		88.677		88.587		88.959		88.779		88.633	
61	900	88.471		88.661		88.582		89.090		88.762		88.638	
62	915	88.455		88.666		88.576		89.041		88.757		88.617	
63	930	88.411		88.666		88.527		88.992		88.697		88.562	
64	945	88.422		88.634		88.505		88.932		88.665		88.535	
65	960	88.395		88.617		88.516		88.858		88.724		88.573	
66	975	88.357		88.585		88.478		88.932		88.670		88.540	
67	990	88.368		88.552		88.478		88.910		88.670		88.513	
68	1005	88.351		88.547		88.445		88.856		88.621		88.529	
69	1020	88.330		88.557		88.436		88.823		88.578		88.524	
70	1035	88.324		88.541		88.434		88.916		88.675		88.519	
71	1050	88.330		88.508		88.412		88.768		88.637		88.535	
72	1065	88.286		88.519		88.395		88.790		88.588		88.420	
73	1080	88.292		88.498		88.363		88.817		88.529		88.513	
74	1095	88.281		88.470		88.390		88.741		88.616		88.410	
75	1110	88.254		88.465		88.341		88.774		88.567		88.431	
76	1125	88.303		88.427		88.319		88.719		88.534		88.404	
77	1140	88.210		88.421		88.341		88.687		88.491		88.426	
78	1155	88.221		88.405		88.280		88.790		88.507		88.382	
79	1170	88.194		88.421		88.291		88.676		88.491		88.308	
80	1185	88.221		88.389		88.280		88.687		88.512		88.355	
81	1200	88.177		88.372		88.275		88.670		88.431		88.361	
82	1215	88.161		88.356		88.269		88.714		88.507		88.366	
83	1230	88.134		88.329		88.248		88.687		88.426		88.312	
84	1245	88.150		88.340		88.242		88.605		88.480		88.317	
85	1260	88.139		88.323		88.237		88.649		88.426		88.263	
86	1275	88.079		88.302		88.220		88.687		88.442		88.263	
87	1290	88.085		88.302		88.215		88.594		88.409		88.208	
88	1305	88.123		88.296		88.209		88.670		88.420		88.241	
89	1320	88.101		88.285		88.160		88.567		88.382		88.241	
90	1335	88.090		88.263		88.171		88.599		88.404		88.241	
91	1350	88.058		88.258		88.154		88.572		88.393		88.219	
92	1365	88.041		88.247		88.160		88.556		88.312		88.268	
93	1380	88.063		88.236		88.138		88.540		88.306		88.115	
94	1395	88.063		88.231		88.133		88.561		88.355		88.235	
95	1410	88.025		88.220		88.111		88.556		88.317		88.121	
96	1425	88.030		88.214		88.100		88.534		88.344		88.132	
97	1440	88.003		88.209		88.100		88.540		88.322		88.170	

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP 13 DEG. F	TEMP 14 DEG. F	TEMP 15 DEG. F	TEMP 16 DEG. F	TEMP 17 DEG. F	TEMP 18 DEG. F
1	0	90.297	90.011	90.264	90.385	89.392	90.160
2	15	90.259	89.951	90.231	90.297	89.354	90.105
3	30	90.187	89.875	90.154	90.242	89.332	90.077
4	45	90.138	89.832	90.121	90.269	89.288	90.055
5	60	90.099	89.783	90.072	90.176	89.261	90.011
6	75	90.050	89.767	90.044	90.099	89.233	89.983
7	90	90.006	89.712	89.989	90.104	89.206	89.994
8	105	89.956	89.658	89.956	90.022	89.162	89.945
9	120	89.918	89.598	89.923	89.989	89.140	89.967
10	135	89.880	89.571	89.874	89.912	89.118	89.928
11	150	89.841	89.528	89.841	89.879	89.107	89.928
12	165	89.798	89.490	89.797	89.923	89.080	89.884
13	180	89.765	89.457	89.758	89.770	89.042	89.857
14	195	89.721	89.430	89.731	89.764	89.020	89.791
15	210	89.699	89.403	89.714	89.770	89.003	89.818
16	225	89.650	89.349	89.665	89.726	88.992	89.785
17	240	89.628	89.354	89.621	89.688	88.949	89.752
18	255	89.584	89.295	89.588	89.731	88.932	89.774
19	270	89.562	89.262	89.560	89.666	88.927	89.730
20	285	89.546	89.257	89.538	89.583	88.894	89.692
21	300	89.508	89.224	89.511	89.550	88.877	89.692
22	315	89.480	89.186	89.473	89.468	88.844	89.670
23	330	89.458	89.154	89.456	89.523	88.823	89.626
24	345	89.415	89.143	89.429	89.457	88.784	89.620
25	360	89.393	89.094	89.401	89.468	88.795	89.631
26	375	89.376	89.088	89.379	89.474	88.779	89.604
27	390	89.344	89.067	89.352	89.479	88.735	89.604
28	405	89.322	89.018	89.341	89.380	88.735	89.582
29	420	89.305	89.012	89.291	89.326	88.719	89.565
30	435	89.272	89.002	89.291	89.276	88.702	89.548
31	450	89.256	88.953	89.253	89.238	88.675	89.532
32	465	89.223	88.947	89.242	89.287	88.669	89.515
33	480	89.207	88.931	89.225	89.282	88.631	89.499
34	495	89.185	88.893	89.209	89.200	88.636	89.477
35	510	89.163	88.899	89.181	89.216	88.614	89.868
36	525	89.141	88.866	89.148	89.189	88.604	89.939
37	540	89.119	88.866	89.159	89.128	88.598	89.950
38	555	89.103	88.855	89.110	89.216	88.571	89.950
39	570	89.081	88.828	89.104	89.117	88.532	89.945
40	585	89.059	88.779	89.077	89.112	88.521	89.917
41	600	89.048	88.779	89.049	89.106	88.527	89.923
42	615	89.021	88.757	89.027	89.024	88.483	89.906
43	630	89.010	88.736	89.022	88.975	88.483	89.906
44	645	88.993	88.741	89.000	89.046	88.472	90.270
45	660	88.977	88.719	88.978	89.035	88.467	90.237
46	675	88.950	88.698	88.978	88.997	88.439	90.242
47	690	88.944	88.671	88.956	88.925	88.428	90.231
48	705	88.928	88.649	88.940	88.909	88.417	90.237
49	720	88.900	88.622	88.918	88.898	88.401	90.220
50	735	88.889	88.606	88.923	88.920	88.390	90.215

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE NUMBER	DELTA MINS	TEMP 13		TEMP 14		TEMP 15		TEMP 16		TEMP 17		TEMP 18	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
51	750	88.873		88.627		88.890		88.893		88.379		90.209	
52	765	88.857		88.600		88.857		88.942		88.352		90.198	
53	780	88.851		88.589		88.835		88.898		88.346		90.198	
54	795	88.818		88.573		88.846		88.882		88.324		90.204	
55	810	88.824		88.546		88.824		88.843		88.324		90.187	
56	825	88.780		88.530		88.802		88.854		88.319		90.171	
57	840	88.791		88.530		88.786		88.843		88.302		90.171	
58	855	88.764		88.519		88.775		88.816		88.269		90.132	
59	870	88.758		88.475		88.736		88.772		88.269		90.121	
60	885	88.736		88.464		88.764		88.717		88.258		90.132	
61	900	88.720		88.464		88.709		88.788		88.253		90.116	
62	915	88.709		88.470		88.725		88.673		88.226		90.099	
63	930	88.698		88.448		88.692		88.723		88.220		90.094	
64	945	88.682		88.421		88.692		88.734		88.215		90.099	
65	960	88.682		88.421		88.670		88.712		88.209		90.110	
66	975	88.660		88.389		88.654		88.679		88.182		90.088	
67	990	88.649		88.410		88.659		88.673		88.171		90.072	
68	1005	88.632		88.378		88.626		88.750		88.182		90.072	
69	1020	88.605		88.345		88.610		88.673		88.165		90.061	
70	1035	88.616		88.351		88.593		88.684		88.127		90.055	
71	1050	88.600		88.313		88.615		88.596		88.138		90.039	
72	1065	88.578		88.323		88.566		88.646		88.154		90.044	
73	1080	88.578		88.307		88.571		88.602		88.094		90.055	
74	1095	88.572		88.318		88.560		88.536		88.133		90.017	
75	1110	88.545		88.280		88.538		88.542		88.105		90.011	
76	1125	88.550		88.264		88.527		88.514		88.094		90.017	
77	1140	88.512		88.269		88.506		88.531		88.061		90.011	
78	1155	88.539		88.275		88.506		88.503		88.072		90.017	
79	1170	88.501		88.231		88.489		88.547		88.050		90.011	
80	1185	88.474		88.226		88.495		88.553		88.045		90.215	
81	1200	88.485		88.215		88.456		88.536		88.023		90.204	
82	1215	88.468		88.204		88.473		88.498		88.045		90.209	
83	1230	88.457		88.209		88.456		88.487		88.034		90.204	
84	1245	88.457		88.161		88.440		88.542		88.028		90.209	
85	1260	88.446		88.182		88.434		88.487		88.007		90.193	
86	1275	88.430		88.177		88.418		88.427		87.996		90.204	
87	1290	88.425		88.171		88.379		88.432		87.990		90.209	
88	1305	88.397		88.128		88.390		88.438		87.996		90.187	
89	1320	88.397		88.128		88.379		88.459		87.979		90.165	
90	1335	88.392		88.112		88.379		88.438		87.974		90.165	
91	1350	88.381		88.117		88.357		88.427		87.963		90.165	
92	1365	88.348		88.112		88.357		88.388		87.952		90.165	
93	1380	88.342		88.101		88.346		88.344		87.930		90.149	
94	1395	88.364		88.133		88.335		88.311		87.972		90.154	
95	1410	88.348		88.074		88.335		88.344		87.963		90.149	
96	1425	88.337		88.068		88.330		88.383		87.946		90.132	
97	1440	88.337		88.068		88.286		88.339		87.963		90.143	

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP 19 DEG. F	TEMP 20 DEG. F	TEMP 21 DEG. F	TEMP 22 DEG. F	TEMP 23 DEG. F	TEMP 24 DEG. F
1	0	89.137	93.807	90.654	90.758	90.847	92.134
2	15	89.157	93.780	90.588	90.698	90.792	92.046
3	30	89.157	93.741	90.544	90.632	90.682	92.024
4	45	89.135	93.736	90.462	90.560	90.676	91.925
5	60	89.097	93.725	90.390	90.505	90.599	91.881
6	75	89.125	93.692	90.335	90.456	90.506	91.777
7	90	89.086	93.681	90.297	90.401	90.440	91.744
8	105	89.097	93.670	90.231	90.357	90.484	91.700
9	120	89.048	93.653	90.192	90.313	90.445	91.661
10	135	89.032	93.631	90.143	90.247	90.335	91.551
11	150	89.027	93.626	90.099	90.220	90.258	91.463
12	165	89.005	93.615	90.055	90.170	90.286	91.430
13	180	88.999	93.598	90.011	90.132	90.231	91.441
14	195	88.983	93.576	89.962	90.055	90.115	91.337
15	210	88.978	93.565	89.934	90.022	90.088	91.337
16	225	88.961	93.554	89.901	89.989	90.099	91.304
17	240	88.929	93.543	89.830	89.962	90.093	91.210
18	255	88.912	93.532	89.802	89.912	89.956	91.199
19	270	88.885	93.510	89.769	89.874	89.962	91.161
20	285	88.880	93.493	89.742	89.857	89.934	91.111
21	300	88.880	93.482	89.698	89.819	89.890	91.045
22	315	88.858	93.471	89.693	89.781	89.841	91.089
23	330	88.825	93.444	89.633	89.742	89.824	90.979
24	345	88.804	93.444	89.605	89.720	89.753	90.957
25	360	88.787	93.427	89.572	89.688	89.742	90.930
26	375	88.782	93.405	89.544	89.666	89.748	90.913
27	390	88.771	93.389	89.539	89.638	89.671	90.880
28	405	88.738	93.372	89.468	89.594	89.660	90.858
29	420	88.711	93.361	89.462	89.567	89.621	90.825
30	435	88.700	93.361	89.440	89.534	89.610	90.803
31	450	88.684	93.350	89.424	89.534	89.583	90.759
32	465	88.684	93.339	89.374	89.512	89.539	90.748
33	480	88.668	93.328	89.363	89.463	89.550	90.693
34	495	88.630	93.306	89.352	89.452	89.473	90.671
35	510	88.635	93.301	89.325	89.441	89.479	90.677
36	525	88.613	93.290	89.292	89.391	89.429	90.633
37	540	88.608	93.273	89.259	89.364	89.435	90.583
38	555	88.581	93.262	89.248	89.348	89.396	90.550
39	570	88.554	93.251	89.221	89.342	89.385	90.534
40	585	88.554	93.235	89.199	89.309	89.358	90.512
41	600	88.543	93.235	89.177	89.304	89.363	90.501
42	615	88.543	93.218	89.171	89.271	89.363	90.473
43	630	88.521	93.218	89.133	89.254	89.297	90.479
44	645	88.499	93.196	89.116	89.221	89.270	90.418
45	660	88.505	93.196	89.111	89.227	89.341	90.402
46	675	88.472	93.180	89.072	89.167	89.254	90.391
47	690	88.477	93.174	89.051	89.156	89.232	90.380
48	705	88.472	93.169	89.040	89.139	89.193	90.341
49	720	88.456	93.163	89.034	89.139	89.204	90.330
50	735	88.434	93.147	89.001	89.106	89.149	90.308

VARIABLE TABLE SUMMARY (CONTINUED)

SAMPLE NUMBER	DELTA MINS	TEMP 19		TEMP 20		TEMP 21		TEMP 22		TEMP 23		TEMP 24	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
51	750	88.418		93.125		88.968		89.084		89.177		90.286	
52	765	88.401		93.130		88.990		89.084		89.133		90.281	
53	780	88.401		93.125		88.919		89.052		89.166		90.253	
54	795	88.385		93.119		88.935		89.057		89.094		90.231	
55	810	88.396		93.114		88.891		89.002		89.050		90.226	
56	825	88.374		93.108		88.897		89.002		89.023		90.209	
57	840	88.352		93.086		88.875		89.002		89.072		90.165	
58	855	88.347		93.086		88.847		88.964		89.001		90.165	
59	870	88.341		93.070		88.847		88.958		89.029		90.121	
60	885	88.341		93.064		88.825		88.942		89.012		90.138	
61	900	88.341		93.059		88.798		88.925		88.996		90.099	
62	915	88.303		93.064		88.787		88.914		88.952		90.121	
63	930	88.314		93.053		88.782		88.904		88.985		90.083	
64	945	88.293		93.037		88.738		88.849		88.919		90.072	
65	960	88.309		93.037		88.754		88.876		88.946		90.050	
66	975	88.282		93.026		88.732		88.838		88.908		90.011	
67	990	88.287		93.031		88.732		88.849		88.968		90.000	
68	1005	88.271		93.026		88.699		88.821		88.880		90.017	
69	1020	88.265		93.009		88.683		88.799		88.875		89.978	
70	1035	88.238		92.998		88.666		88.766		88.836		89.989	
71	1050	88.238		92.998		88.650		88.772		88.831		89.951	
72	1065	88.227		92.982		88.639		88.777		88.814		89.956	
73	1080	88.244		92.987		88.628		88.777		88.831		89.962	
74	1095	88.227		92.982		88.628		88.739		88.831		89.962	
75	1110	88.195		92.971		88.606		88.723		88.858		89.896	
76	1125	88.216		92.971		88.606		88.723		88.765		89.896	
77	1140	88.195		92.949		88.595		88.723		88.732		89.907	
78	1155	88.184		92.943		88.578		88.723		88.727		89.869	
79	1170	88.195		92.949		88.578		88.695		88.727		89.853	
80	1185	88.178		92.943		88.584		88.684		88.727		89.858	
81	1200	88.173		92.921		88.546		88.657		88.749		89.858	
82	1215	88.135		92.932		88.546		88.657		88.699		89.863	
83	1230	88.140		92.910		88.496		88.646		88.694		89.803	
84	1245	88.119		92.921		88.485		88.624		88.694		89.809	
85	1260	88.124		92.910		88.491		88.602		88.705		89.782	
86	1275	88.113		92.910		88.474		88.591		88.683		89.765	
87	1290	88.119		92.894		88.491		88.591		88.655		89.771	
88	1305	88.119		92.899		88.474		88.591		88.655		89.771	
89	1320	88.113		92.899		88.480		88.591		88.661		89.754	
90	1335	88.108		92.877		88.452		88.580		88.661		89.754	
91	1350	88.064		92.883		88.430		88.575		88.639		89.716	
92	1365	88.086		92.872		88.414		88.542		88.628		89.754	
93	1380	88.053		92.877		88.430		88.542		88.595		89.727	
94	1395	88.053		92.861		88.414		88.525		88.595		89.727	
95	1410	88.097		92.861		88.425		88.525		88.551		89.694	
96	1425	88.032		92.861		88.419		88.542		88.551		89.694	
97	1440	88.015		92.850		88.381		88.542		88.589		89.683	
						88.392		88.514		88.589		89.683	
						88.375		88.514		88.535		89.683	
						88.364		88.509		88.518		89.689	
						88.359		88.476		88.551		89.667	
						88.348		88.470		88.535		89.661	
										88.535		89.623	

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP 25		TEMP 26		TEMP 27		TEMP 28		TEMP 29		TEMP 30	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
1	0	90.679		90.363		90.434		90.579		90.369		90.438	
2	15	90.597		90.302		90.450		90.502		90.341		90.378	
3	30	90.569		90.258		90.406		90.424		90.275		90.345	
4	45	90.482		90.198		90.291		90.375		90.171		90.285	
5	60	90.422		90.115		90.236		90.309		90.132		90.203	
6	75	90.367		90.099		90.192		90.259		90.094		90.142	
7	90	90.318		90.049		90.159		90.221		90.055		90.115	
8	105	90.296		90.006		90.077		90.176		89.984		90.044	
9	120	90.208		89.913		90.055		90.094		89.951		89.989	
10	135	90.197		89.951		90.027		90.039		89.885		89.967	
11	150	90.110		89.919		89.989		89.995		89.847		89.923	
12	165	90.110		89.843		89.956		89.956		89.803		89.852	
13	180	90.033		89.778		89.867		89.929		89.754		89.836	
14	195	90.011		89.745		89.900		89.912		89.748		89.743	
15	210	90.011		89.740		89.806		89.857		89.743		89.727	
16	225	89.961		89.659		89.812		89.830		89.699		89.721	
17	240	89.912		89.664		89.790		89.775		89.623		89.656	
18	255	89.857		89.583		89.734		89.720		89.546		89.639	
19	270	89.840		89.594		89.701		89.703		89.546		89.617	
20	285	89.780		89.561		89.640		89.665		89.579		89.568	
21	300	89.752		89.512		89.657		89.643		89.497		89.563	
22	315	89.736		89.507		89.601		89.610		89.497		89.513	
23	330	89.708		89.501		89.574		89.572		89.437		89.497	
24	345	89.681		89.420		89.563		89.550		89.448		89.448	
25	360	89.637		89.425		89.524		89.489		89.366		89.431	
26	375	89.626		89.377		89.474		89.478		89.333		89.410	
27	390	89.587		89.322		89.441		89.451		89.311		89.393	
28	405	89.604		89.290		89.452		89.429		89.267		89.322	
29	420	89.554		89.290		89.430		89.396		89.284		89.300	
30	435	89.505		89.274		89.396		89.390		89.278		89.306	
31	450	89.494		89.252		89.385		89.341		89.235		89.240	
32	465	89.444		89.160		89.297		89.303		89.218		89.229	
33	480	89.433		89.192		89.308		89.264		89.207		89.207	
34	495	89.428		89.214		89.302		89.281		89.191		89.180	
35	510	89.395		89.220		89.286		89.259		89.136		89.169	
36	525	89.384		89.089		89.214		89.226		89.103		89.131	
37	540	89.356		89.095		89.230		89.198		89.120		89.125	
38	555	89.307		89.122		89.192		89.187		89.065		89.142	
39	570	89.351		89.084		89.181		89.138		89.081		89.060	
40	585	89.318		89.079		89.147		89.143		89.071		89.049	
41	600	89.290		89.073		89.136		89.110		88.999		89.043	
42	615	89.241		89.019		89.081		89.099		89.038		89.021	
43	630	89.246		89.035		89.131		89.077		88.994		88.994	
44	645	89.174		88.997		89.048		89.028		88.978		88.989	
45	660	89.191		88.949		89.042		89.023		88.928		88.956	
46	675	89.191		88.916		89.014		89.001		88.939		88.972	
47	690	89.158		88.905		88.998		89.006		88.934		88.907	
48	705	89.119		88.905		88.992		88.968		88.835		88.901	
49	720	89.119		88.883		88.987		88.957		88.846		88.885	
50	735	89.086		88.878		88.987		88.951		88.846		88.863	

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE UMBER	DELTA MINS	TEMP 25 DEG. F	TEMP 26 DEG. F	TEMP 27 DEG. F	TEMP 28 DEG. F	TEMP 29 DEG. F	TEMP 30 DEG. F
51	750	89.086	88.835	88.920	88.907	88.824	88.824
52	765	89.081	88.835	88.926	88.891	88.814	88.835
53	780	89.042	88.829	88.959	88.891	88.786	88.797
54	795	89.031	88.829	88.893	88.891	88.786	88.808
55	810	89.009	88.780	88.848	88.852	88.759	88.775
56	825	89.004	88.743	88.826	88.830	88.732	88.748
57	840	88.993	88.743	88.826	88.825	88.726	88.753
58	855	88.993	88.726	88.815	88.808	88.742	88.710
59	870	88.949	88.721	88.815	88.775	88.704	88.699
60	885	88.949	88.699	88.793	88.781	88.655	88.721
61	900	88.910	88.678	88.749	88.731	88.671	88.693
62	915	88.905	88.694	88.798	88.737	88.671	88.682
63	930	88.899	88.699	88.782	88.704	88.595	88.650
64	945	88.872	88.612	88.760	88.710	88.611	88.606
65	960	88.861	88.607	88.710	88.688	88.600	88.611
66	975	88.833	88.596	88.732	88.677	88.568	88.584
67	990	88.822	88.640	88.693	88.666	88.595	88.595
68	1005	88.822	88.591	88.632	88.633	88.535	88.589
69	1020	88.811	88.569	88.682	88.655	88.551	88.551
70	1035	88.800	88.553	88.666	88.611	88.535	88.535
71	1050	88.745	88.537	88.682	88.611	88.496	88.551
72	1065	88.756	88.515	88.682	88.589	88.491	88.513
73	1080	88.756	88.526	88.594	88.578	88.458	88.546
74	1095	88.729	88.482	88.621	88.583	88.486	88.469
75	1110	88.696	88.466	88.577	88.572	88.475	88.469
76	1125	88.712	88.472	88.555	88.556	88.475	88.475
77	1140	88.679	88.417	88.527	88.523	88.469	88.458
78	1155	88.674	88.423	88.483	88.501	88.431	88.469
79	1170	88.630	88.417	88.566	88.495	88.393	88.431
80	1185	88.646	88.396	88.555	88.451	88.360	88.431
81	1200	88.624	88.444	88.483	88.446	88.360	88.420
82	1215	88.619	88.390	88.488	88.446	88.371	88.343
83	1230	88.608	88.379	88.483	88.435	88.343	88.360
84	1245	88.591	88.369	88.461	88.413	88.393	88.371
85	1260	88.586	88.374	88.433	88.429	88.360	88.332
86	1275	88.553	88.347	88.433	88.402	88.321	88.349
87	1290	88.575	88.331	88.455	88.364	88.311	88.338
88	1305	88.542	88.325	88.427	88.391	88.300	88.311
89	1320	88.553	88.341	88.389	88.369	88.289	88.289
90	1335	88.520	88.304	88.367	88.386	88.305	88.283
91	1350	88.520	88.282	88.361	88.336	88.234	88.203
92	1365	88.492	88.260	88.378	88.325	88.261	88.267
93	1380	88.498	88.271	88.306	88.331	88.223	88.283
94	1395	88.476	88.233	88.317	88.298	88.234	88.245
95	1410	88.481	88.201	88.311	88.303	88.256	88.229
96	1425	88.459	88.238	88.311	88.325	88.239	88.245
97	1440	88.459	88.222	88.344	88.287	88.174	88.245

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	TEMP 31		TEMP 32		TEMP 33		TEMP 34		TEMP 35		TEMP 36	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
1	0	90.451		90.313		90.319		90.137		90.483		90.248	
2	15	90.402		90.275		90.275		90.110		90.417		90.226	
3	30	90.314		90.198		90.214		90.038		90.456		90.165	
4	45	90.347		90.137		90.148		90.016		90.461		90.099	
5	60	90.330		90.082		90.104		89.989		90.302		90.061	
6	75	90.226		90.071		90.066		89.940		90.264		89.989	
7	90	90.187		90.060		90.038		89.912		90.264		89.934	
8	105	90.116		90.000		89.951		89.869		90.253		89.918	
9	120	90.099		89.951		89.934		89.836		90.198		89.879	
10	135	90.028		89.973		89.880		89.792		90.225		89.836	
11	150	90.105		89.880		89.852		89.743		90.165		89.803	
12	165	89.946		89.853		89.792		89.721		90.132		89.753	
13	180	89.929		89.815		89.781		89.710		90.099		89.709	
14	195	89.875		89.744		89.759		89.650		90.132		89.660	
15	210	89.924		89.755		89.699		89.633		90.060		89.644	
16	225	89.799		89.701		89.672		89.601		90.011		89.600	
17	240	89.902		89.690		89.623		89.568		90.038		89.567	
18	255	89.777		89.668		89.617		89.546		89.935		89.534	
19	270	89.728		89.614		89.579		89.502		89.935		89.512	
20	285	89.695		89.575		89.557		89.480		89.951		89.485	
21	300	89.761		89.559		89.502		89.453		89.820		89.452	
22	315	89.652		89.532		89.480		89.431		89.875		89.435	
23	330	89.619		89.505		89.447		89.415		89.831		89.391	
24	345	89.603		89.488		89.420		89.382		89.804		89.364	
25	360	89.587		89.488		89.404		89.344		89.799		89.342	
26	375	89.538		89.418		89.371		89.333		89.859		89.320	
27	390	89.532		89.385		89.338		89.305		89.712		89.298	
28	405	89.527		89.385		89.327		89.278		89.712		89.271	
29	420	89.483		89.336		89.300		89.256		89.793		89.254	
30	435	89.450		89.352		89.272		89.251		89.663		89.211	
31	450	89.418		89.309		89.245		89.201		89.717		89.194	
32	465	89.418		89.287		89.240		89.179		89.570		89.200	
33	480	89.347		89.265		89.207		89.179		89.690		89.167	
34	495	89.358		89.249		89.196		89.158		89.576		89.139	
35	510	89.342		89.238		89.158		89.130		89.668		89.112	
36	525	89.353		89.200		89.141		89.125		89.472		89.090	
37	540	89.331		89.205		89.119		89.092		89.554		89.095	
38	555	89.266		89.162		89.097		89.070		89.581		89.041	
39	570	89.293		89.145		89.097		89.037		89.516		89.041	
40	585	89.309		89.102		89.070		89.043		89.521		89.002	
41	600	89.178		89.096		89.048		89.010		89.510		88.997	
42	615	89.200		89.085		89.026		88.977		89.516		88.975	
43	630	89.168		89.091		89.021		88.977		89.489		88.964	
44	645	89.157		89.069		88.988		88.972		89.456		88.936	
45	660	89.113		89.036		88.955		88.955		89.423		88.947	
46	675	89.124		89.031		88.944		88.955		89.407		88.914	
47	690	89.086		88.977		88.928		88.917		89.412		88.909	
48	705	89.059		88.977		88.922		88.884		89.369		88.871	
49	720	89.075		88.966		88.900		88.868		89.325		88.854	
50	735	89.026		88.949		88.879		88.868		89.309		88.849	

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE NUMBER	DELTA MINS	TEMP 31 DEG. F	TEMP 32 DEG. F	TEMP 33 DEG. F	TEMP 34 DEG. F	TEMP 35 DEG. F	TEMP 36 DEG. F
51	750	89.064	88.944	88.868	88.818	89.282	88.827
52	765	89.037	88.928	88.846	88.840	89.309	88.827
53	780	89.010	88.911	88.824	88.797	89.358	88.816
54	795	88.988	88.889	88.813	88.775	89.314	88.794
55	810	88.966	88.889	88.807	88.791	89.260	88.783
56	825	88.939	88.841	88.797	88.769	89.233	88.777
57	840	88.961	88.862	88.775	88.764	89.206	88.761
58	855	88.945	88.835	88.764	88.709	89.260	88.739
59	870	88.950	88.813	88.747	88.720	89.222	88.723
60	885	88.863	88.792	88.731	88.693	89.151	88.701
61	900	88.868	88.786	88.714	88.704	89.184	88.695
62	915	88.857	88.770	88.698	88.676	89.162	88.673
63	930	88.814	88.759	88.682	88.682	89.200	88.662
64	945	88.857	88.781	88.676	88.654	89.140	88.646
65	960	88.825	88.743	88.654	88.632	89.124	88.651
66	975	88.776	88.737	88.643	88.627	89.086	88.629
67	990	88.749	88.704	88.621	88.611	89.091	88.618
68	1005	88.803	88.694	88.627	88.611	89.064	88.602
69	1020	88.770	88.721	88.589	88.589	89.081	88.586
70	1035	88.776	88.694	88.589	88.561	89.004	88.580
71	1050	88.683	88.661	88.567	88.539	89.037	88.564
72	1065	88.705	88.655	88.550	88.539	89.026	88.569
73	1080	88.678	88.645	88.556	88.539	89.004	88.547
74	1095	88.683	88.650	88.534	88.501	88.983	88.553
75	1110	88.640	88.596	88.528	88.485	88.934	88.520
76	1125	88.738	88.601	88.518	88.485	89.004	88.503
77	1140	88.683	88.579	88.507	88.485	88.879	88.498
78	1155	88.667	88.617	88.490	88.446	88.950	88.498
79	1170	88.640	88.617	88.474	88.457	88.945	88.476
80	1185	88.596	88.557	88.468	88.468	88.939	88.470
81	1200	88.602	88.568	88.446	88.419	88.917	88.443
82	1215	88.591	88.525	88.430	88.408	88.857	88.465
83	1230	88.564	88.514	88.430	88.392	88.896	88.438
84	1245	88.526	88.519	88.425	88.397	88.906	88.427
85	1260	88.553	88.481	88.392	88.386	88.879	88.410
86	1275	88.575	88.487	88.381	88.353	88.819	88.399
87	1290	88.504	88.465	88.370	88.364	88.863	88.383
88	1305	88.515	88.476	88.364	88.348	88.798	88.388
89	1320	88.498	88.438	88.364	88.315	88.857	88.372
90	1335	88.558	88.465	88.364	88.359	88.819	88.355
91	1350	88.515	88.449	88.332	88.310	88.743	88.350
92	1365	88.520	88.432	88.326	88.293	88.727	88.339
93	1380	88.471	88.427	88.321	88.321	88.770	88.333
94	1395	88.482	88.389	88.304	88.304	88.743	88.328
95	1410	88.444	88.383	88.304	88.288	88.721	88.328
96	1425	88.466	88.400	88.288	88.244	88.711	88.322
97	1440	88.417	88.410	88.293	88.255	88.732	88.295

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP 37 DEG. F	TEMP 38 DEG. F	TEMP 39 DEG. F	TEMP 40 DEG. F	PRES 1 PSIA	HUM 1 FRACTION
1	0	89.557	89.513	90.088	88.717	37.649	0.182
2	15	89.497	89.475	90.044	88.678	37.643	0.183
3	30	89.486	89.447	90.011	88.667	37.642	0.184
4	45	89.442	89.403	89.995	88.640	37.637	0.184
5	60	89.415	89.376	89.978	88.613	37.635	0.184
6	75	89.371	89.321	89.918	88.575	37.632	0.185
7	90	89.371	89.272	89.874	88.553	37.630	0.186
8	105	89.327	89.267	89.880	88.525	37.626	0.186
9	120	89.305	89.239	89.858	88.509	37.627	0.187
10	135	89.300	89.201	89.820	88.482	37.622	0.187
11	150	89.261	89.152	89.798	88.471	37.620	0.188
12	165	89.207	89.130	89.770	88.438	37.617	0.188
13	180	89.174	89.108	89.738	88.411	37.614	0.189
14	195	89.174	89.070	89.705	88.400	37.616	0.189
15	210	89.163	89.059	89.705	88.389	37.611	0.190
16	225	89.119	89.020	89.677	88.367	37.609	0.190
17	240	89.125	89.009	89.650	88.362	37.613	0.190
18	255	89.070	88.955	89.601	88.323	37.609	0.191
19	270	89.048	88.933	89.595	88.318	37.604	0.191
20	285	89.026	88.922	89.595	88.307	37.602	0.191
21	300	88.999	88.900	89.557	88.280	37.599	0.191
22	315	88.993	88.867	89.541	88.258	37.598	0.192
23	330	88.972	88.867	89.513	88.252	37.596	0.192
24	345	88.955	88.823	89.492	88.241	37.595	0.192
25	360	88.911	88.807	89.453	88.225	37.593	0.193
26	375	88.911	88.785	89.470	88.220	37.594	0.193
27	390	88.873	88.774	89.420	88.187	37.591	0.194
28	405	88.862	88.736	89.399	88.181	37.590	0.193
29	420	88.846	88.703	89.382	88.176	37.588	0.194
30	435	88.829	88.719	89.366	88.170	37.587	0.195
31	450	88.802	88.719	89.371	88.165	37.586	0.195
32	465	88.791	88.664	89.338	88.110	37.584	0.195
33	480	88.775	88.648	89.311	88.088	37.582	0.195
34	495	88.758	88.610	89.295	88.083	37.580	0.196
35	510	88.758	88.632	89.289	88.061	37.582	0.196
36	525	88.725	88.582	89.267	88.034	37.576	0.196
37	540	88.709	88.571	89.240	88.039	37.574	0.196
38	555	88.704	88.566	89.218	88.034	37.572	0.197
39	570	88.693	88.550	89.229	88.028	37.570	0.197
40	585	88.687	88.528	89.224	88.023	37.568	0.197
41	600	88.665	88.522	89.180	88.017	37.567	0.197
42	615	88.638	88.528	89.185	88.017	37.565	0.198
43	630	88.643	88.484	89.185	88.007	37.564	0.198
44	645	88.621	88.473	89.153	87.990	37.564	0.199
45	660	88.600	88.446	89.109	87.979	37.565	0.198
46	675	88.600	88.462	89.114	87.957	37.564	0.199
47	690	88.583	88.424	89.109	87.957	37.562	0.199
48	705	88.572	88.413	89.071	87.941	37.562	0.199
49	720	88.561	88.407	89.081	87.936	37.561	0.200
50	735	88.545	88.385	89.049	87.930	37.560	0.200

VARIABLE TABLE SUMMARY (CONTINUED)

SAMPLE NUMBER	DELTA MINS	TEMP 37 DEG. F	TEMP 38 DEG. F	TEMP 39 DEG. F	TEMP 40 DEG. F	PRES 1 PSIA	HUM 1 FRACTION
51	750	88.539	88.374	89.043	88.094	37.558	0.200
52	765	88.523	88.352	89.043	88.088	37.558	0.200
53	780	88.523	88.358	89.060	88.088	37.555	0.201
54	795	88.507	88.352	88.994	88.067	37.554	0.201
55	810	88.479	88.325	88.999	88.072	37.550	0.201
56	825	88.457	88.303	88.978	88.072	37.549	0.201
57	840	88.474	88.309	88.961	88.067	37.549	0.202
58	855	88.457	88.292	88.967	88.061	37.554	0.202
59	870	88.446	88.276	88.956	88.061	37.546	0.202
60	885	88.446	88.259	88.917	88.061	37.546	0.202
61	900	88.430	88.248	88.923	88.056	37.546	0.202
62	915	88.430	88.265	88.923	88.039	37.545	0.203
63	930	88.408	88.259	88.939	88.050	37.544	0.203
64	945	88.397	88.221	88.896	88.039	37.545	0.203
65	960	88.392	88.221	88.874	88.045	37.544	0.203
66	975	88.375	88.205	88.868	88.034	37.543	0.203
67	990	88.359	88.199	88.874	88.039	37.543	0.204
68	1005	88.364	88.188	88.852	88.028	37.542	0.204
69	1020	88.348	88.172	88.846	88.017	37.543	0.204
70	1035	88.342	88.183	88.824	88.017	37.543	0.204
71	1050	88.326	88.155	88.814	88.012	37.542	0.204
72	1065	88.310	88.139	88.808	88.012	37.542	0.205
73	1080	88.310	88.128	88.781	88.012	37.541	0.205
74	1095	88.299	88.123	88.803	88.001	37.541	0.205
75	1110	88.288	88.123	88.764	88.001	37.541	0.205
76	1125	88.282	88.128	88.770	87.985	37.540	0.206
77	1140	88.277	88.112	88.748	87.979	37.541	0.206
78	1155	88.260	88.090	88.770	87.985	37.540	0.206
79	1170	88.249	88.084	88.742	87.974	37.539	0.206
80	1185	88.249	88.079	88.742	87.974	37.539	0.207
81	1200	88.233	88.062	88.742	87.979	37.539	0.206
82	1215	88.222	88.046	88.704	87.968	37.538	0.207
83	1230	88.200	88.051	88.688	87.968	37.536	0.207
84	1245	88.211	88.046	88.693	87.957	37.533	0.207
85	1260	88.200	88.035	88.699	87.946	37.530	0.208
86	1275	88.195	88.019	88.688	87.946	37.528	0.208
87	1290	88.184	88.035	88.660	87.941	37.531	0.208
88	1305	88.178	88.008	88.650	87.930	37.529	0.208
89	1320	88.167	88.019	88.639	87.925	37.522	0.208
90	1335	88.167	87.997	88.655	87.930	37.520	0.208
91	1350	88.151	87.986	88.633	87.914	37.519	0.209
92	1365	88.151	88.002	88.633	87.914	37.519	0.209
93	1380	88.146	87.997	88.644	87.914	37.517	0.209
94	1395	88.146	87.969	88.595	87.908	37.517	0.209
95	1410	88.129	87.953	88.589	87.897	37.516	0.209
96	1425	88.113	87.953	88.589	87.903	37.516	0.209
97	1440	88.113	87.947	88.589	87.886	37.514	0.209

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	HUM 2 FRACTION	HUM 3 FRACTION	HUM 4 FRACTION	HUM 5 FRACTION	HUM 6 FRACTION	HUM 7 FRACTION
1	0	0.181	0.174	0.191	0.187	0.188	0.183
2	15	0.182	0.174	0.192	0.188	0.189	0.183
3	30	0.183	0.175	0.192	0.188	0.190	0.184
4	45	0.183	0.175	0.193	0.189	0.190	0.184
5	60	0.184	0.177	0.193	0.189	0.190	0.185
6	75	0.184	0.178	0.194	0.190	0.191	0.184
7	90	0.186	0.177	0.194	0.190	0.191	0.185
8	105	0.186	0.178	0.195	0.190	0.192	0.185
9	120	0.186	0.181	0.195	0.191	0.192	0.186
10	135	0.187	0.180	0.195	0.191	0.193	0.187
11	150	0.187	0.182	0.196	0.192	0.193	0.187
12	165	0.188	0.180	0.196	0.192	0.193	0.187
13	180	0.188	0.181	0.196	0.192	0.194	0.188
14	195	0.189	0.182	0.197	0.192	0.194	0.188
15	210	0.189	0.182	0.197	0.193	0.194	0.188
16	225	0.189	0.183	0.197	0.193	0.195	0.188
17	240	0.190	0.184	0.198	0.193	0.195	0.189
18	255	0.190	0.183	0.198	0.194	0.195	0.189
19	270	0.191	0.184	0.198	0.194	0.196	0.189
20	285	0.191	0.183	0.199	0.194	0.196	0.190
21	300	0.191	0.185	0.199	0.194	0.196	0.190
22	315	0.191	0.184	0.199	0.195	0.197	0.191
23	330	0.192	0.184	0.199	0.195	0.197	0.190
24	345	0.192	0.184	0.200	0.195	0.197	0.191
25	360	0.193	0.186	0.200	0.195	0.197	0.192
26	375	0.193	0.187	0.200	0.195	0.197	0.191
27	390	0.193	0.186	0.200	0.196	0.198	0.191
28	405	0.193	0.186	0.201	0.196	0.198	0.192
29	420	0.194	0.185	0.201	0.196	0.199	0.192
30	435	0.194	0.186	0.201	0.197	0.199	0.192
31	450	0.195	0.186	0.201	0.197	0.199	0.193
32	465	0.194	0.188	0.202	0.197	0.199	0.193
33	480	0.195	0.188	0.202	0.197	0.199	0.193
34	495	0.195	0.188	0.202	0.198	0.200	0.194
35	510	0.196	0.189	0.202	0.198	0.200	0.194
36	525	0.196	0.188	0.203	0.198	0.200	0.194
37	540	0.196	0.189	0.203	0.198	0.200	0.195
38	555	0.196	0.188	0.203	0.198	0.201	0.194
39	570	0.196	0.188	0.203	0.199	0.201	0.194
40	585	0.197	0.188	0.204	0.199	0.201	0.195
41	600	0.197	0.188	0.204	0.199	0.201	0.195
42	615	0.197	0.190	0.204	0.199	0.202	0.196
43	630	0.197	0.190	0.204	0.199	0.202	0.196
44	645	0.198	0.190	0.205	0.200	0.202	0.196
45	660	0.198	0.190	0.205	0.200	0.202	0.196
46	675	0.198	0.190	0.205	0.200	0.202	0.196
47	690	0.199	0.191	0.205	0.200	0.203	0.197
48	705	0.199	0.191	0.206	0.201	0.203	0.197
49	720	0.199	0.192	0.206	0.201	0.203	0.198
50	735	0.199	0.191	0.206	0.201	0.204	0.197

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLITUDE NUMBER	DELTA MINS	HUM 2 FRACTION	HUM 3 FRACTION	HUM 4 FRACTION	HUM 5 FRACTION	HUM 6 FRACTION	HUM 7 FRACTION
51	750	0.200	0.191	0.206	0.201	0.204	0.198
52	765	0.199	0.192	0.206	0.201	0.204	0.198
53	780	0.200	0.193	0.207	0.201	0.204	0.198
54	795	0.200	0.192	0.206	0.202	0.204	0.199
55	810	0.200	0.192	0.207	0.202	0.204	0.199
56	825	0.201	0.193	0.207	0.202	0.205	0.198
57	840	0.201	0.193	0.207	0.202	0.205	0.199
58	855	0.201	0.192	0.208	0.202	0.205	0.199
59	870	0.201	0.193	0.208	0.203	0.205	0.200
60	885	0.201	0.193	0.208	0.203	0.205	0.200
61	900	0.202	0.194	0.208	0.203	0.206	0.199
62	915	0.202	0.194	0.208	0.203	0.206	0.200
63	930	0.202	0.193	0.208	0.204	0.206	0.200
64	945	0.202	0.195	0.209	0.204	0.206	0.200
65	960	0.203	0.194	0.209	0.204	0.206	0.200
66	975	0.203	0.195	0.209	0.204	0.207	0.201
67	990	0.203	0.195	0.209	0.204	0.207	0.201
68	1005	0.204	0.195	0.209	0.205	0.207	0.201
69	1020	0.204	0.196	0.210	0.205	0.207	0.201
70	1035	0.204	0.196	0.210	0.205	0.207	0.201
71	1050	0.204	0.196	0.210	0.205	0.208	0.201
72	1065	0.204	0.196	0.210	0.205	0.208	0.202
73	1080	0.205	0.196	0.210	0.205	0.208	0.202
74	1095	0.205	0.196	0.210	0.206	0.208	0.203
75	1110	0.204	0.198	0.210	0.206	0.208	0.203
76	1125	0.205	0.197	0.211	0.206	0.208	0.202
77	1140	0.205	0.197	0.211	0.206	0.209	0.203
78	1155	0.205	0.197	0.211	0.206	0.209	0.202
79	1170	0.205	0.197	0.212	0.207	0.209	0.203
80	1185	0.206	0.197	0.211	0.207	0.209	0.203
81	1200	0.205	0.199	0.212	0.207	0.209	0.203
82	1215	0.206	0.198	0.212	0.207	0.209	0.204
83	1230	0.206	0.197	0.212	0.207	0.210	0.203
84	1245	0.206	0.199	0.212	0.207	0.210	0.204
85	1260	0.206	0.199	0.212	0.208	0.210	0.204
86	1275	0.207	0.198	0.213	0.208	0.210	0.205
87	1290	0.207	0.198	0.213	0.208	0.210	0.204
88	1305	0.207	0.199	0.213	0.208	0.211	0.205
89	1320	0.207	0.200	0.213	0.208	0.211	0.204
90	1335	0.207	0.198	0.213	0.208	0.211	0.205
91	1350	0.208	0.201	0.213	0.209	0.211	0.205
92	1365	0.208	0.199	0.213	0.209	0.211	0.205
93	1380	0.208	0.201	0.214	0.209	0.211	0.206
94	1395	0.208	0.201	0.214	0.209	0.211	0.205
95	1410	0.208	0.199	0.214	0.209	0.212	0.206
96	1425	0.209	0.200	0.214	0.209	0.212	0.205
97	1440	0.208	0.200	0.214	0.210	0.212	0.206

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	HUM 8 FRACTION	HUM 9 FRACTION	HUM 10 FRACTION
1	0	0.207	0.201	0.206
2	15	0.208	0.201	0.206
3	30	0.208	0.201	0.206
4	45	0.208	0.202	0.207
5	60	0.208	0.202	0.207
6	75	0.209	0.202	0.207
7	90	0.209	0.202	0.207
8	105	0.209	0.203	0.208
9	120	0.209	0.203	0.208
10	135	0.210	0.203	0.208
11	150	0.210	0.203	0.208
12	165	0.211	0.204	0.208
13	180	0.211	0.204	0.208
14	195	0.211	0.204	0.209
15	210	0.211	0.204	0.209
16	225	0.211	0.205	0.209
17	240	0.212	0.205	0.209
18	255	0.212	0.205	0.210
19	270	0.213	0.205	0.209
20	285	0.212	0.206	0.210
21	300	0.213	0.206	0.210
22	315	0.213	0.206	0.210
23	330	0.213	0.206	0.210
24	345	0.213	0.206	0.211
25	360	0.214	0.207	0.211
26	375	0.214	0.207	0.211
27	390	0.214	0.207	0.211
28	405	0.214	0.207	0.211
29	420	0.214	0.207	0.211
30	435	0.215	0.208	0.211
31	450	0.215	0.208	0.212
32	465	0.215	0.208	0.212
33	480	0.215	0.208	0.212
34	495	0.215	0.208	0.212
35	510	0.216	0.209	0.213
36	525	0.216	0.209	0.213
37	540	0.216	0.209	0.213
38	555	0.216	0.209	0.214
39	570	0.217	0.209	0.213
40	585	0.217	0.210	0.214
41	600	0.217	0.209	0.214
42	615	0.217	0.210	0.214
43	630	0.217	0.210	0.214
44	645	0.218	0.210	0.214
45	660	0.218	0.211	0.214
46	675	0.218	0.211	0.215
47	690	0.218	0.211	0.215
48	705	0.218	0.211	0.215
49	720	0.218	0.211	0.215
50	735	0.218	0.211	0.215

VARIABLE TABLE SUMMARY (CONTINUED)

SAMPLE NUMBER	DELTA MINS	HUM 8 FRACTION	HUM 9 FRACTION	HUM 10 FRACTION
51	750	0.218	0.212	0.215
52	765	0.219	0.212	0.215
53	780	0.219	0.212	0.216
54	795	0.219	0.212	0.216
55	810	0.219	0.212	0.216
56	825	0.219	0.213	0.216
57	840	0.219	0.213	0.216
58	855	0.220	0.213	0.216
59	870	0.220	0.213	0.216
60	885	0.220	0.213	0.217
61	900	0.220	0.213	0.217
62	915	0.220	0.213	0.217
63	930	0.221	0.213	0.217
64	945	0.221	0.214	0.217
65	960	0.221	0.214	0.217
66	975	0.221	0.214	0.217
67	990	0.221	0.214	0.217
68	1005	0.221	0.214	0.218
69	1020	0.222	0.215	0.218
70	1035	0.222	0.215	0.218
71	1050	0.222	0.215	0.218
72	1065	0.222	0.215	0.218
73	1080	0.222	0.215	0.218
74	1095	0.222	0.215	0.218
75	1110	0.223	0.215	0.218
76	1125	0.223	0.216	0.219
77	1140	0.223	0.216	0.219
78	1155	0.223	0.216	0.219
79	1170	0.223	0.216	0.219
80	1185	0.223	0.216	0.219
81	1200	0.224	0.216	0.219
82	1215	0.223	0.217	0.219
83	1230	0.224	0.217	0.219
84	1245	0.224	0.217	0.220
85	1260	0.224	0.217	0.220
86	1275	0.224	0.217	0.220
87	1290	0.224	0.217	0.220
88	1305	0.225	0.217	0.220
89	1320	0.225	0.218	0.220
90	1335	0.225	0.218	0.220
91	1350	0.225	0.218	0.221
92	1365	0.225	0.218	0.221
93	1380	0.225	0.218	0.221
94	1395	0.225	0.218	0.221
95	1410	0.226	0.218	0.221
96	1425	0.226	0.218	0.221
97	1440	0.226	0.219	0.222

END OF TABLE

APPENDIX A.3.

REDUCED PRESSURE ILRT
COMPUTER GENERATED REPORT
CONTROLLED LEAKAGE RATE TEST
(CLRT)

LOUISIANA POWER & LIGHT COMPANY
 WATERFORD 5E5 UNIT NO. 3

CONTAINMENT INTEGRATED LEAKAGE RATE TEST
 SUPPLEMENTAL VERIFICATION TEST
 LEAKAGE RATE MEASURED USING THE ABSOLUTE METHOD
 LEAKAGE RATE COMPUTED USING THE MASS POINT METHOD

TEST PERIOD STARTED AT 15 HOURS ON APRIL 29, 1983
 TEST CONDUCTED FOR 4.25 HOURS

FREE SPACE VOLUME OF CONTAINMENT IS 2677000 CU FT
 CONTAINMENT WAS PRESSURIZED TO 37.51 PSIA

INITIAL VERIFICATION AIR WEIGHT 492700.8 LBS
 FINAL VERIFICATION AIR WEIGHT 492362.2 LBS
 FITTED MASS POINT LEAKAGE RATE IS 0.356 % PER DAY

LC = 0.356 LTM = 0.0022 LO = 0.3626

LO + LTM - .25LT < LC < LO + LTM + .25LT

0.3626 + 0.0022 - 0.0885 < 0.356 < 0.3626 + 0.0022 + 0.0885

0.2763 < 0.356 < 0.4533

LC = REDUCED PRESSURE FITTED CLRT MASS POINT LEAKAGE RATE
 LTM = REDUCED PRESSURE FITTED ILRT MASS POINT LEAKAGE RATE
 LO = SUPERIMPOSED LEAKAGE DURING VERIFICATION TEST
 LT = CONTAINMENT DESIGN LEAKAGE RATE FOR REDUCED PRESSURE

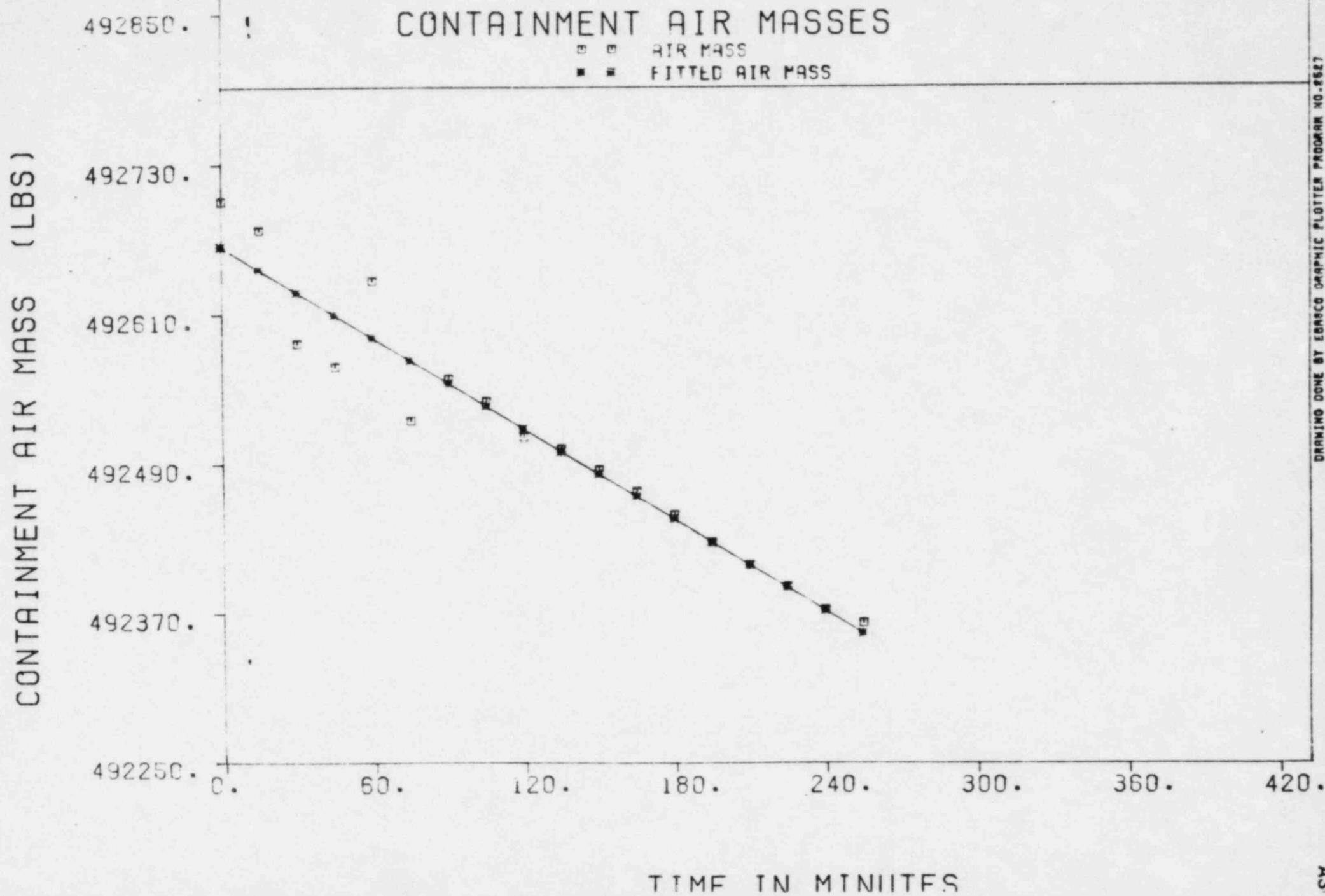
DESCRIPTION OF VARIABLES

AUG. TEM - CONTAINMENT MEAN TEMPERATURE CALCULATED
FROM VOLUMETRICALLY WEIGHTED RTD SENSOR INDICATIONS.
AVE. PRE - PRIMARY CONTAINMENT PRESSURE INDICATION.
VAP. PRE - CONTAINMENT VAPOR PRESSURE CALCULATED
FROM VOLUMETRICALLY WEIGHTED RHD SENSOR INDICATIONS.
LEAK SIM - SIMPLE TOTAL TIME LEAKAGE RATE.
LEAK MAS - LEAKAGE RATE COMPUTED FROM FIRST ORDER
REGRESSION OF AIR MASS DATA.
AIR MASS - CONTAINMENT AIR MASS.

NOTE FOR TABULAR DATA -
TABLE VALUES OF ZERO SIGNIFY DATA IS
NOT APPLICABLE TO THE CALCULATION.

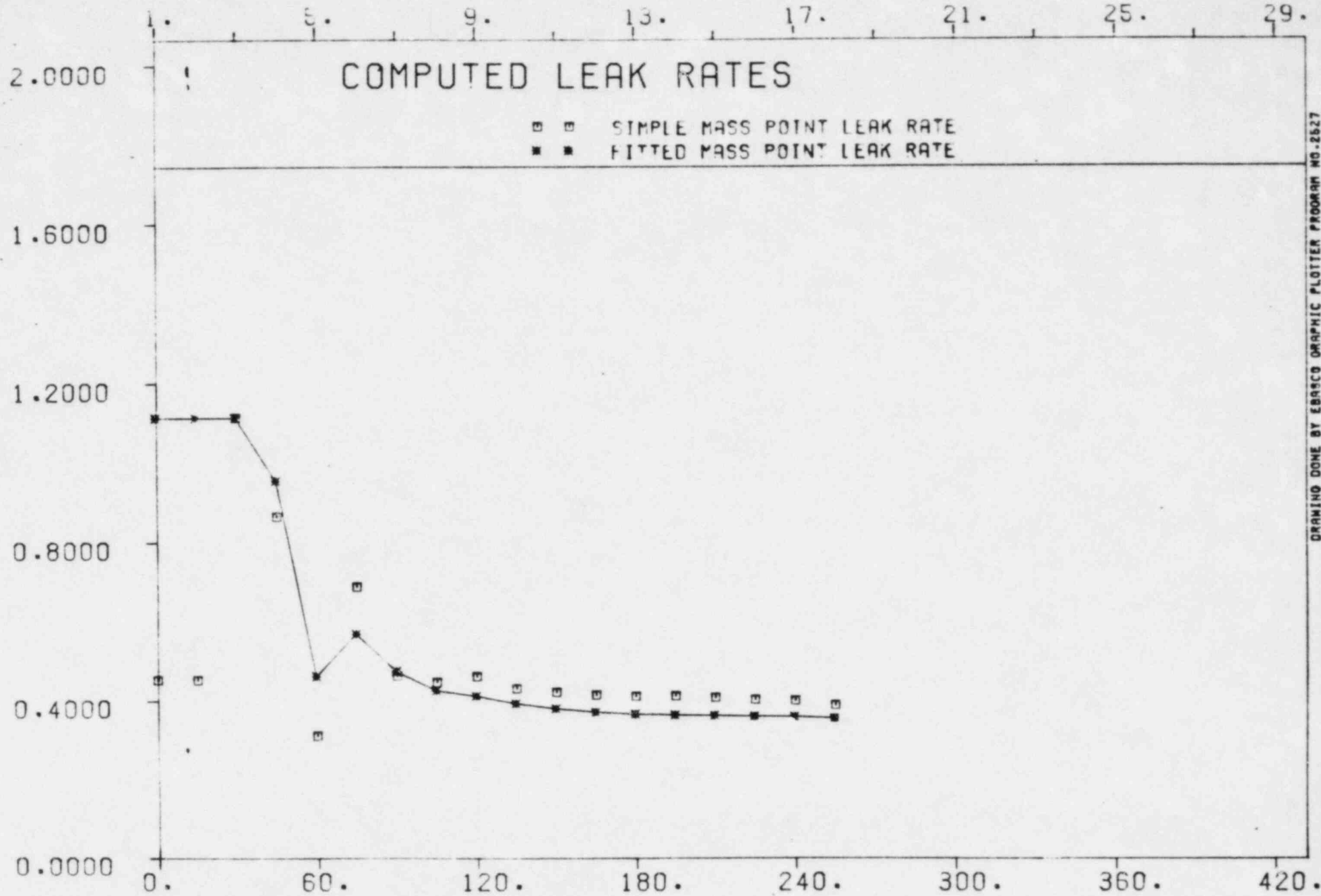
NOTE FOR CURVES -

1. TOP ABSCISSA SCALE REPRESENTS SAMPLE NUMBERS.
2. AIR MASS IS THE CALCULATED CONTAINMENT AIR MASS AND FITTED AIR MASS IS THE LINEAR LEAST SQUARE FIT OF THE AIR MASSES.
3. SIMPLE MASS POINT IS THE TOTAL TIME LEAKAGE RATE AND FITTED MASS POINT IS THE LEAKAGE RATE COMPUTED FROM FIRST ORDER REGRESSION OF AIR MASS DATA.
4. UCL IS THE UPPER LIMIT OF THE 95% CONFIDENCE LEVEL OF AIR MASS DATA.



DRAWING DONE BY EDRSCO GRAPHIC PLOTTER PROGRAM NO. 8527

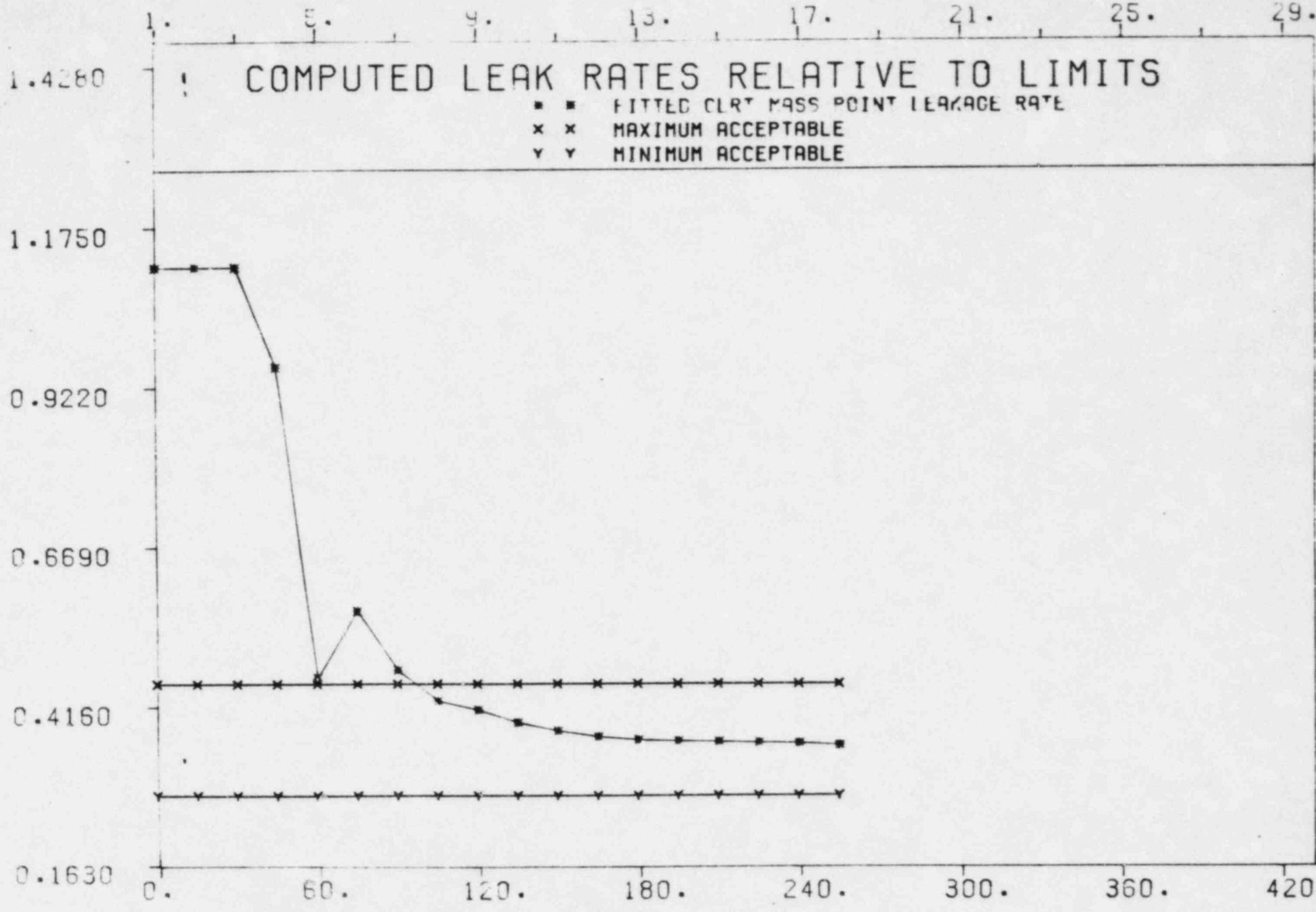
PER CENT PER DAY BY WEIGHT



DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM NO. 2527

TIME IN MINUTES

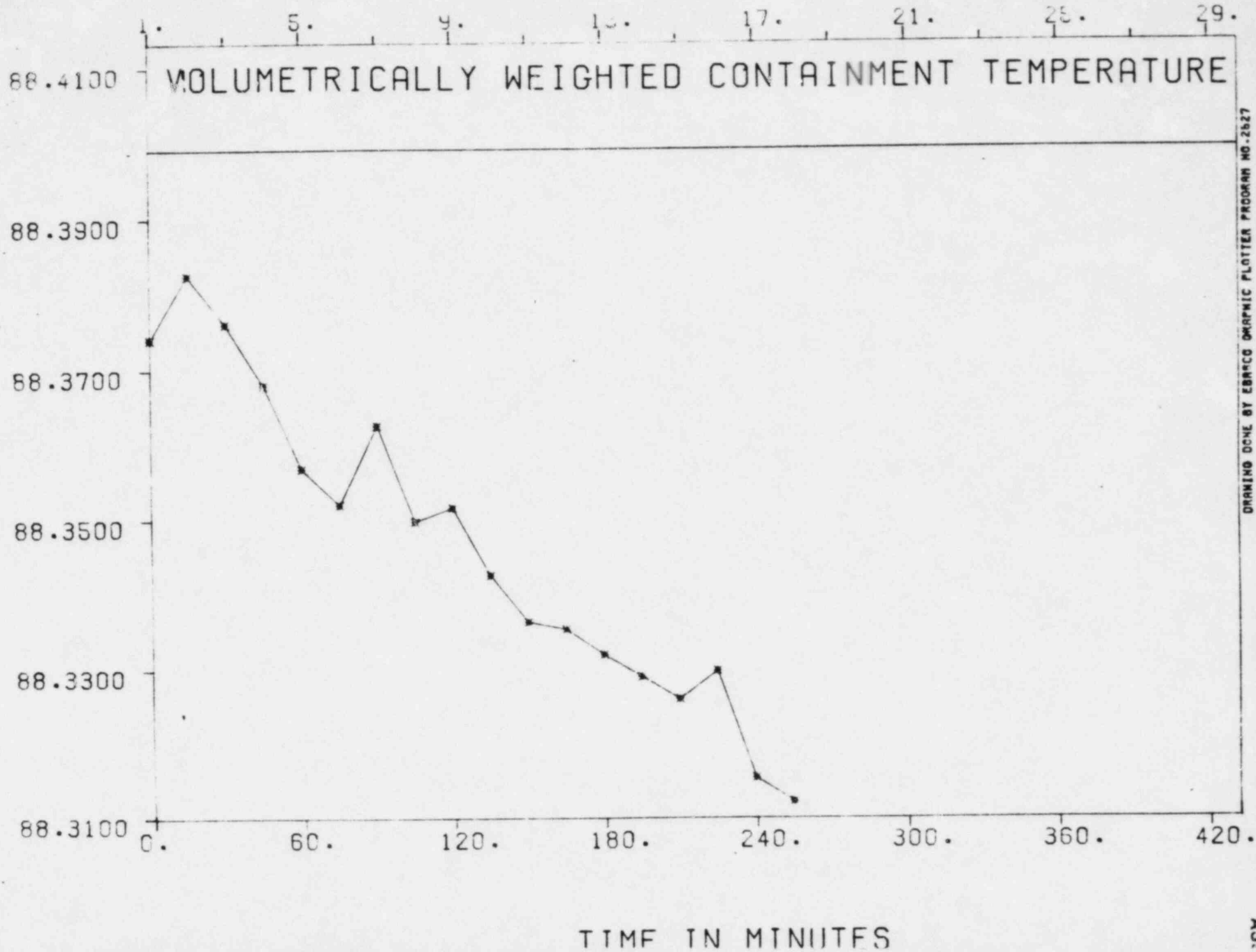
PER CENT PER DAY BY WEIGHT



TIME IN MINUTES

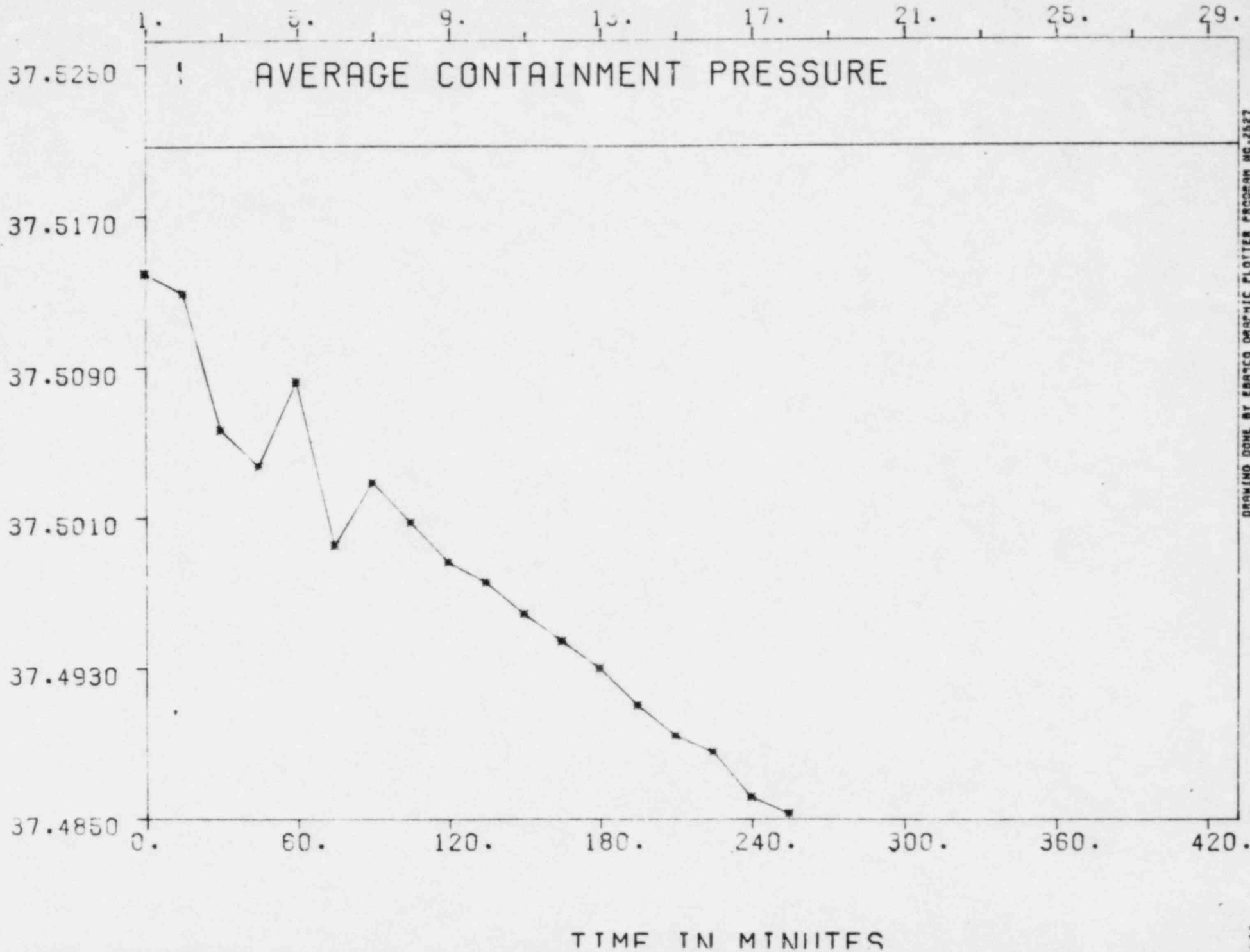
DRAWING DONE BY EDWARDS GRAPHIC PLOTTER PROGRAM NO. 8527

TEMPERATURE IN DEGREES FAHRENHEIT



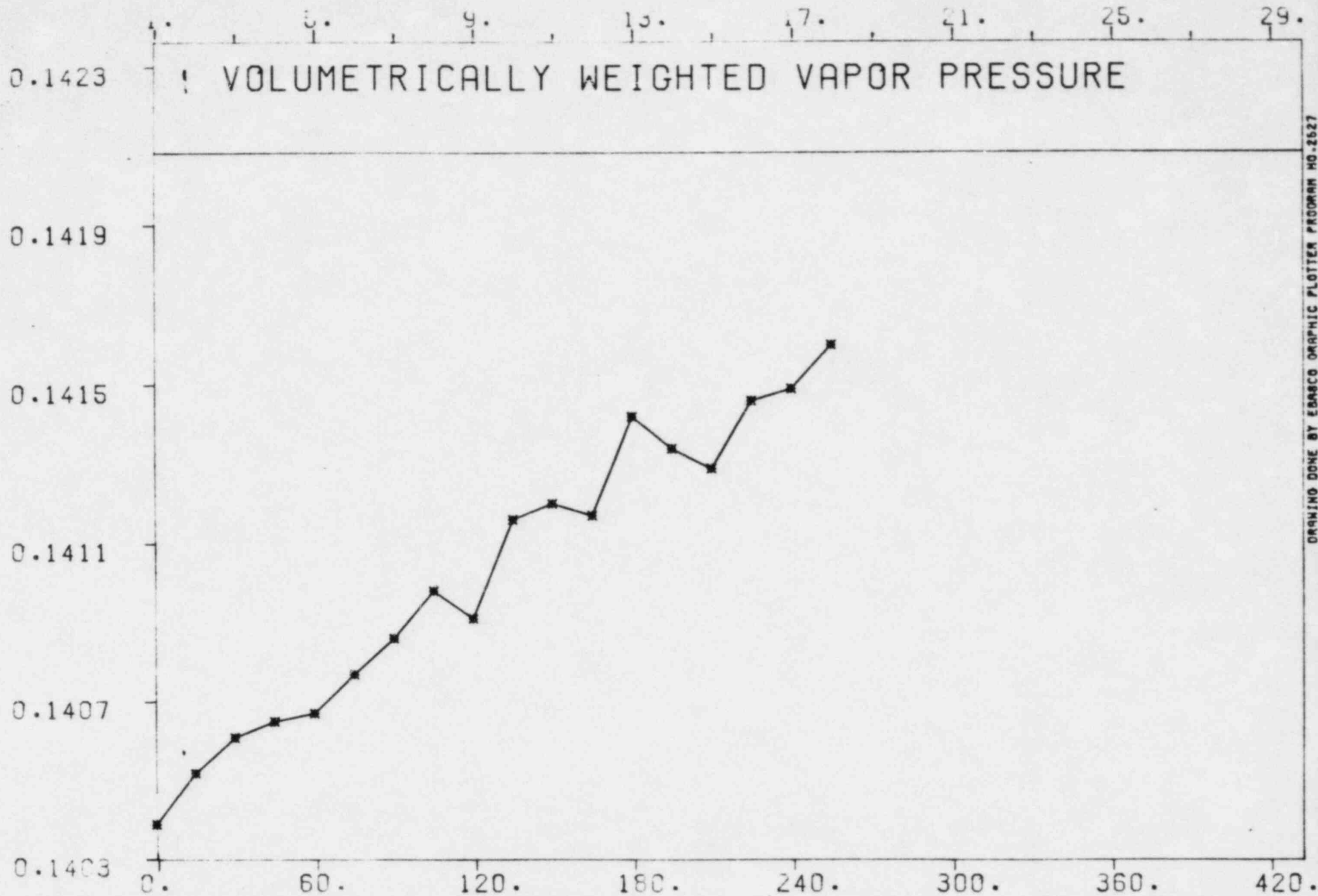
DRAWING DONE BY EBRACC GRAPHIC PLOTTER PROGRAM NO. 2527

PRESSURE IN PSIA



DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM MC.2527

VAPOR PRESSURE IN PSIA



TIME IN MINUTES

DRAWING DONE BY EDRSCO GRAPHIC PLOTTER PROGRAM NO. 2627

VARIABLE TABLE SUMMARY

AMPLE NUMBER	DELTA MINS	AVG. TEM DEG. F	AVG. PRE PSIA	VAP. PRE PSIA	LEAK SIM PER CENT	LEAK MAS PER CENT	AIR MASS POUNDS
1	0	88.374	37.5140	0.1404	0.000	0.000	492701
2	15	88.382	37.5129	0.1405	0.453	0.000	492678
3	30	88.376	37.5057	0.1406	1.113	1.113	492587
4	45	88.368	37.5038	0.1406	0.864	0.955	492568
5	60	88.357	37.5083	0.1407	0.312	0.463	492637
6	75	88.352	37.4995	0.1408	0.687	0.569	492525
7	90	88.362	37.5029	0.1409	0.463	0.475	492558
8	105	88.350	37.5008	0.1410	0.447	0.426	492540
9	120	88.352	37.4986	0.1409	0.461	0.412	492512
10	135	88.343	37.4976	0.1412	0.430	0.392	492502
11	150	88.336	37.4959	0.1412	0.420	0.379	492485
12	165	88.335	37.4944	0.1412	0.413	0.370	492467
13	180	88.332	37.4930	0.1414	0.410	0.364	492448
14	195	88.329	37.4911	0.1413	0.411	0.363	492426
15	210	88.326	37.4894	0.1413	0.407	0.361	492408
16	225	88.330	37.4886	0.1415	0.402	0.360	492391
17	240	88.315	37.4862	0.1415	0.400	0.359	492372
18	255	88.312	37.4853	0.1416	0.388	0.356	492362

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP DEG.	1 F	TEMP DEG.	2 F	TEMP DEG.	3 F	TEMP DEG.	4 F	TEMP DEG.	5 F	TEMP DEG.	6 F
1	0	88.069		88.073		88.102		88.184		88.168		88.604	
2	15	88.058		88.046		88.096		88.190		88.195		88.599	
3	30	88.075		88.078		88.091		88.184		88.195		88.566	
4	45	88.064		88.062		88.091		88.184		88.184		88.560	
5	60	88.047		88.057		88.074		88.184		88.151		88.632	
6	75	88.036		88.046		88.080		88.173		88.184		88.473	
7	90	88.053		88.106		88.102		88.173		88.190		88.440	
8	105	88.036		88.051		88.063		88.162		88.146		88.533	
9	120	88.025		88.040		88.058		88.162		88.151		88.495	
10	135	88.036		88.057		88.069		88.157		88.157		88.506	
11	150	88.020		88.046		88.036		88.140		88.162		88.429	
12	165	88.014		88.008		88.053		88.157		88.124		88.495	
13	180	88.031		87.997		88.025		88.140		88.151		88.555	
14	195	88.020		88.051		88.047		88.146		88.146		88.434	
15	210	88.020		88.008		88.058		88.135		88.135		88.560	
16	225	88.020		88.046		88.042		88.140		88.140		88.555	
17	240	87.998		87.986		88.020		88.118		88.118		88.538	
18	255	87.992		88.008		88.009		88.118		88.135		88.522	

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP 7 DEG. F	TEMP 8 DEG. F	TEMP 9 DEG. F	TEMP 10 DEG. F	TEMP 11 DEG. F	TEMP 12 DEG. F
1	0	87.933	88.111	88.012	88.360	88.203	88.072
2	15	87.954	88.133	88.034	88.436	88.252	88.105
3	30	87.922	88.106	87.990	88.392	88.214	88.121
4	45	87.922	88.127	88.001	88.414	88.246	88.088
5	60	87.911	88.127	87.968	88.403	88.154	88.001
6	75	87.905	88.095	88.001	88.409	88.214	88.077
7	90	87.933	88.111	87.990	88.403	88.192	88.088
8	105	87.889	88.084	87.968	88.403	88.203	88.007
9	120	87.894	88.089	87.990	88.414	88.131	88.045
10	135	87.894	88.095	87.968	88.343	88.203	88.007
11	150	87.905	88.073	87.979	88.381	88.154	88.061
12	165	87.911	88.068	87.957	88.392	88.176	88.023
13	180	87.889	88.062	87.963	88.431	88.176	88.039
14	195	87.900	88.073	87.957	88.403	88.181	88.034
15	210	87.873	88.068	87.957	88.398	88.160	87.985
16	225	87.905	88.084	87.957	88.409	88.127	88.056
17	240	87.878	88.051	87.924	88.343	88.111	88.061
18	255	87.845	88.062	87.952	88.332	88.132	87.979

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	TEMP 13		TEMP 14		TEMP 15		TEMP 16		TEMP 17		TEMP 18	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
1	0	88.249		88.014		88.242		88.240		87.892		90.088	
2	15	88.266		87.998		88.236		88.268		87.897		90.094	
3	30	88.266		88.003		88.231		88.235		87.870		90.099	
4	45	88.249		87.987		88.203		88.240		87.875		90.083	
5	60	88.239		87.971		88.198		88.257		87.864		90.077	
6	75	88.228		87.992		88.209		88.229		87.870		90.077	
7	90	88.239		87.960		88.209		88.246		87.859		90.072	
8	105	88.217		87.987		88.209		88.213		87.870		90.072	
9	120	88.222		87.954		88.181		88.235		87.848		90.077	
10	135	88.206		87.965		88.192		88.262		87.859		90.055	
11	150	88.233		87.971		88.165		88.240		87.864		90.061	
12	165	88.217		87.965		88.176		88.251		87.859		90.066	
13	180	88.217		87.965		88.159		88.207		87.853		90.077	
14	195	88.195		87.954		88.176		88.246		87.837		90.072	
15	210	88.200		87.938		88.137		88.191		87.820		90.061	
16	225	88.184		87.927		88.170		88.268		87.820		90.061	
17	240	88.184		87.927		88.154		88.196		87.842		90.055	
18	255	88.164		87.916		88.143		88.185		87.837		90.044	

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE NUMBER	DELTA MINS	TEMP 19 DEG. F	TEMP 20 DEG. F	TEMP 21 DEG. F	TEMP 22 DEG. F	TEMP 23 DEG. F	TEMP 24 DEG. F
1	0	87.983	92.317	88.260	88.377	88.458	89.569
2	15	87.988	92.822	88.266	88.399	88.425	89.563
3	30	88.010	92.806	88.260	88.372	88.447	89.536
4	45	87.955	92.806	88.244	88.377	88.430	89.541
5	60	87.966	92.811	88.244	88.372	88.436	89.525
6	75	87.961	92.806	88.222	88.355	88.381	89.547
7	90	87.961	92.800	88.255	88.361	88.370	89.574
8	105	87.961	92.806	88.249	88.366	88.436	89.519
9	120	87.939	92.806	88.238	88.350	88.386	89.547
10	135	87.955	92.795	88.233	88.366	88.370	89.530
11	150	87.950	92.800	88.211	88.339	88.364	89.514
12	165	87.934	92.800	88.238	88.339	88.364	89.503
13	180	87.950	92.795	88.211	88.339	88.397	89.470
14	195	87.934	92.795	88.205	88.317	88.364	89.541
15	210	87.912	92.789	88.244	88.333	88.425	89.492
16	225	87.945	92.784	88.216	88.322	88.397	89.481
17	240	87.917	92.784	88.189	88.322	88.375	89.470
18	255	87.923	92.784	88.178	88.295	88.353	89.492

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE NUMBER	DELTA MINS	TEMP 25 DEG. F	TEMP 26 DEG. F	TEMP 27 DEG. F	TEMP 28 DEG. F	TEMP 29 DEG. F	TEMP 30 DEG. F
1	0	88.371	88.136	88.234	88.226	88.141	88.130
2	15	88.398	88.184	88.289	88.199	88.136	88.152
3	30	88.382	88.195	88.272	88.182	88.190	88.130
4	45	88.387	88.157	88.267	88.182	88.103	88.168
5	60	88.382	88.163	88.261	88.193	88.097	88.141
6	75	88.354	88.108	88.234	88.177	88.097	88.119
7	90	88.365	88.168	88.239	88.193	88.081	88.136
8	105	88.343	88.119	88.200	88.138	88.092	88.097
9	120	88.354	88.136	88.195	88.182	88.086	88.157
10	135	88.343	88.098	88.206	88.193	88.081	88.130
11	150	88.327	88.125	88.151	88.144	88.097	88.136
12	165	88.349	88.103	88.178	88.160	88.081	88.141
13	180	88.316	88.119	88.162	88.177	88.070	88.097
14	195	88.316	88.119	88.156	88.155	88.054	88.092
15	210	88.294	88.108	88.156	88.127	88.097	88.125
16	225	88.332	88.103	88.145	88.149	88.065	88.103
17	240	88.305	88.076	88.167	88.133	88.075	88.114
18	255	88.316	88.125	88.184	88.127	88.032	88.092

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE NUMBER	DELTA MINS	TEMP 31 DEG. F	TEMP 32 DEG. F	TEMP 33 DEG. F	TEMP 34 DEG. F	TEMP 35 DEG. F	TEMP 36 DEG. F
1	0	88.379	88.291	88.217	88.200	88.662	88.229
2	15	88.346	88.334	88.217	88.200	88.596	88.235
3	30	88.384	88.302	88.189	88.173	88.678	88.207
4	45	88.324	88.307	88.184	88.189	88.634	88.191
5	60	88.303	88.269	88.178	88.151	88.623	88.191
6	75	88.362	88.318	88.189	88.173	88.645	88.207
7	90	88.319	88.285	88.189	88.195	88.580	88.191
8	105	88.362	88.274	88.173	88.167	88.613	88.196
9	120	88.368	88.329	88.189	88.178	88.623	88.191
10	135	88.319	88.263	88.178	88.135	88.553	88.169
11	150	88.313	88.263	88.167	88.173	88.607	88.185
12	165	88.292	88.285	88.162	88.140	88.602	88.152
13	180	88.303	88.231	88.156	88.102	88.596	88.180
14	195	88.264	88.231	88.140	88.151	88.634	88.152
15	210	88.281	88.258	88.151	88.135	88.542	88.158
16	225	88.313	88.242	88.140	88.129	88.585	88.158
17	240	88.286	88.280	88.156	88.129	88.591	88.141
18	255	88.308	88.269	88.140	88.135	88.591	88.163

END OF TABLE

VARIABLE TABLE SUMMARY

IMPLE NUMBER	DELTA MINS	TEMP 37 DEG. F	TEMP 38 DEG. F	TEMP 39 DEG. F	TEMP 40 DEG. F	PRES 1 PSIA	HUM 1 FRACTION
1	0	88.063	87.909	88.535	87.875	37.514	0.211
2	15	88.042	87.909	88.513	87.865	37.513	0.211
3	30	88.058	87.898	88.529	87.875	37.506	0.211
4	45	88.047	87.893	88.513	87.870	37.504	0.211
5	60	88.036	87.882	88.507	87.859	37.508	0.212
6	75	88.031	87.871	88.496	87.865	37.499	0.211
7	90	88.025	87.882	88.502	88.198	37.503	0.212
8	105	88.020	87.882	88.491	88.165	37.501	0.212
9	120	88.020	87.871	88.464	88.154	37.499	0.212
10	135	88.020	87.876	88.469	88.132	37.498	0.212
11	150	88.020	87.843	88.491	88.121	37.496	0.212
12	165	88.020	87.849	88.464	88.110	37.494	0.213
13	180	88.003	87.849	88.464	88.099	37.493	0.213
14	195	87.992	87.854	88.507	88.094	37.491	0.212
15	210	87.998	87.849	88.458	88.099	37.489	0.213
16	225	87.998	87.849	88.486	88.088	37.489	0.213
17	240	87.992	87.838	88.458	88.083	37.486	0.213
18	255	87.981	87.833	88.486	88.078	37.485	0.213

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	HUM 2 FRACTION	HUM 3 FRACTION	HUM 4 FRACTION	HUM 5 FRACTION	HUM 6 FRACTION	HUM 7 FRACTION
1	0	0.210	0.202	0.216	0.211	0.213	0.208
2	15	0.210	0.202	0.216	0.211	0.213	0.207
3	30	0.211	0.202	0.216	0.211	0.214	0.208
4	45	0.211	0.203	0.216	0.211	0.214	0.207
5	60	0.211	0.202	0.216	0.211	0.214	0.207
6	75	0.211	0.202	0.216	0.211	0.214	0.208
7	90	0.211	0.202	0.216	0.212	0.214	0.208
8	105	0.211	0.203	0.217	0.212	0.214	0.208
9	120	0.211	0.202	0.216	0.212	0.214	0.208
10	135	0.211	0.204	0.217	0.212	0.214	0.209
11	150	0.212	0.204	0.217	0.212	0.214	0.208
12	165	0.211	0.203	0.217	0.213	0.215	0.208
13	180	0.212	0.205	0.217	0.213	0.215	0.208
14	195	0.212	0.204	0.217	0.213	0.215	0.209
15	210	0.212	0.203	0.217	0.213	0.215	0.209
16	225	0.212	0.204	0.218	0.213	0.215	0.209
17	240	0.212	0.204	0.218	0.213	0.215	0.209
18	255	0.212	0.205	0.218	0.213	0.216	0.209

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	HUM 8 FRACTION	HUM 9 FRACTION	HUM 10 FRACTION
1	0	0.227	0.220	0.223
2	15	0.227	0.220	0.222
3	30	0.227	0.220	0.223
4	45	0.227	0.220	0.223
5	60	0.227	0.220	0.223
6	75	0.228	0.220	0.223
7	90	0.228	0.220	0.223
8	105	0.228	0.221	0.223
9	120	0.228	0.221	0.223
10	135	0.228	0.221	0.223
11	150	0.228	0.221	0.224
12	165	0.228	0.221	0.224
13	180	0.228	0.221	0.224
14	195	0.228	0.221	0.224
15	210	0.229	0.221	0.224
16	225	0.229	0.222	0.224
17	240	0.229	0.222	0.224
18	255	0.229	0.222	0.224

END OF TABLE

APPENDIX B.1.

PEAK PRESSURE ILRT
COMPUTER GENERATED REPORT
TEMPERATURE STABILIZATION

TEMPERATURE STABILIZATION
 STARTED AT 1400 HOURS ON APRIL 29, 1983
 CONDUCTED FOR 4.00 HOURS

A	B	C	D	E
1400	93.468			
1415	93.169			
1430	92.956			
1445	92.775			
1500	92.633			
1515	92.506			
1530	92.382			
1545	92.277			
1600	92.165			
1615	92.069			
1630	91.976			
1645	91.888			
1700	91.807			
1715	91.726			
1730	91.654			
1745	91.578			
1800	91.512	0.489	0.295	0.194

A = TIME OF DAY IN MILITARY STANDARD

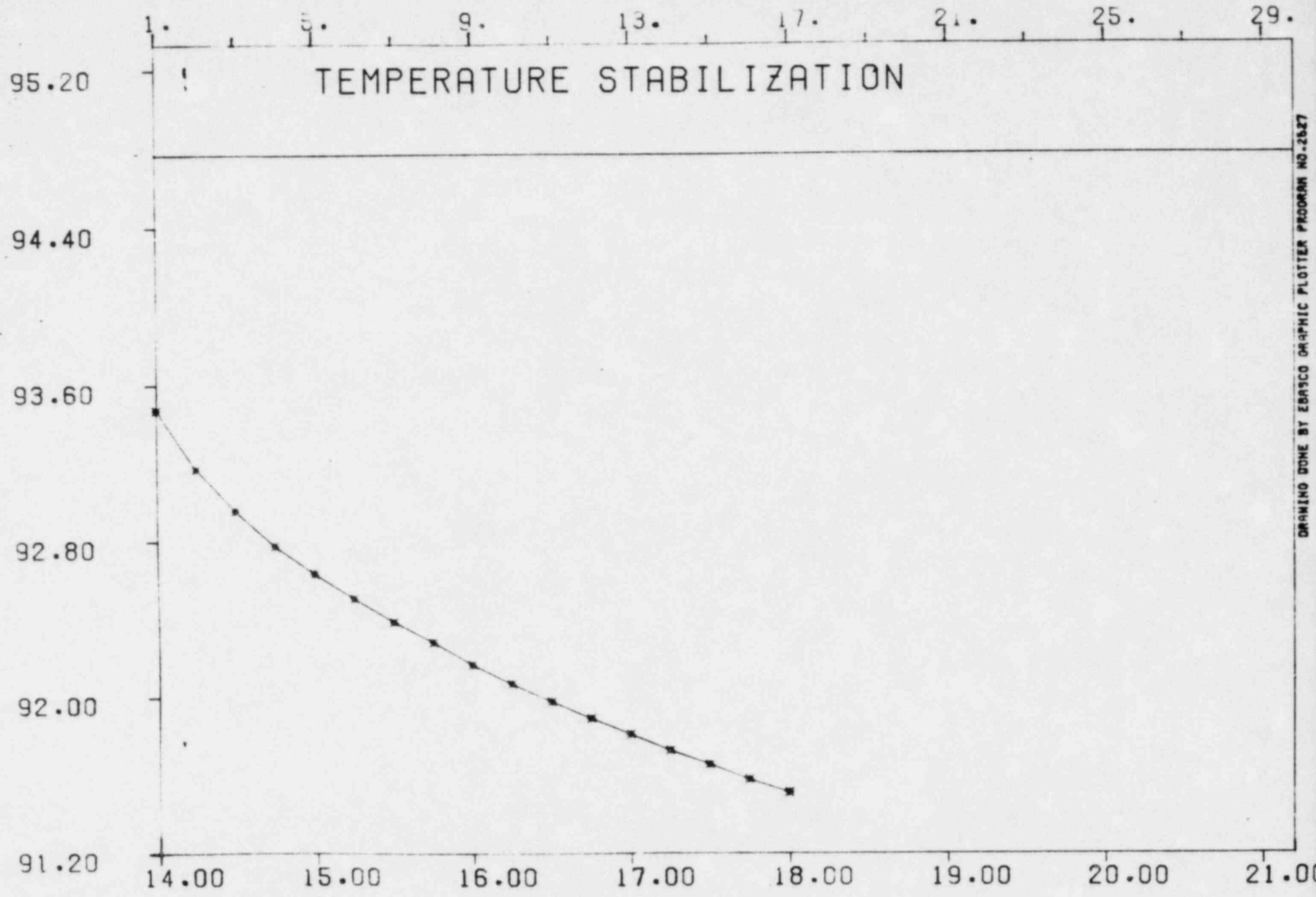
B = AVERAGE CONTAINMENT TEMPERATURE F

C = AVERAGE DIFFERENCE IN TEMP. OVER LAST 4 HOURS

D = AVERAGE DIFFERENCE IN TEMP. OVER LAST 1 HOUR

E = C - D

TEMPERATURE IN DEGREES FAHRENHEIT



TIME - HOURS (MILITARY STANDARD)

APPENDIX B.2.

PEAK PRESSURE ILRT
COMPUTER GENERATED REPORT
INTEGRATED LEAKAGE RATE TEST
(ILRT)

LOUISIANA POWER & LIGHT COMPANY
WATERFORD 5ES UNIT NO. 3

CONTAINMENT INTEGRATED LEAKAGE RATE TEST
LEAKAGE RATE MEASURED USING THE ABSOLUTE METHOD
LEAKAGE RATE COMPUTED USING THE MASS POINT METHOD

TEST PERIOD STARTED AT 1800 HOURS ON APRIL 29, 1983
TEST CONDUCTED FOR 24.00 HOURS

FREE SPACE VOLUME OF CONTAINMENT IS 2677000 CU FT
CONTAINMENT WAS PRESSURIZED TO 60.93 PSIA

INITIAL CONTAINMENT AIR WEIGHT 796185.0 LBS
FINAL CONTAINMENT AIR WEIGHT 795731.7 LBS
FITTED MASS POINT LEAKAGE RATE IS 0.0664 % PER DAY
UPPER LIMIT OF 95% CONFIDENCE LEVEL IS 0.068 % PER DAY
NRC MAXIMUM ALLOWABLE LEAKAGE RATE IS 0.375 % PER DAY

DESCRIPTION OF VARIABLES

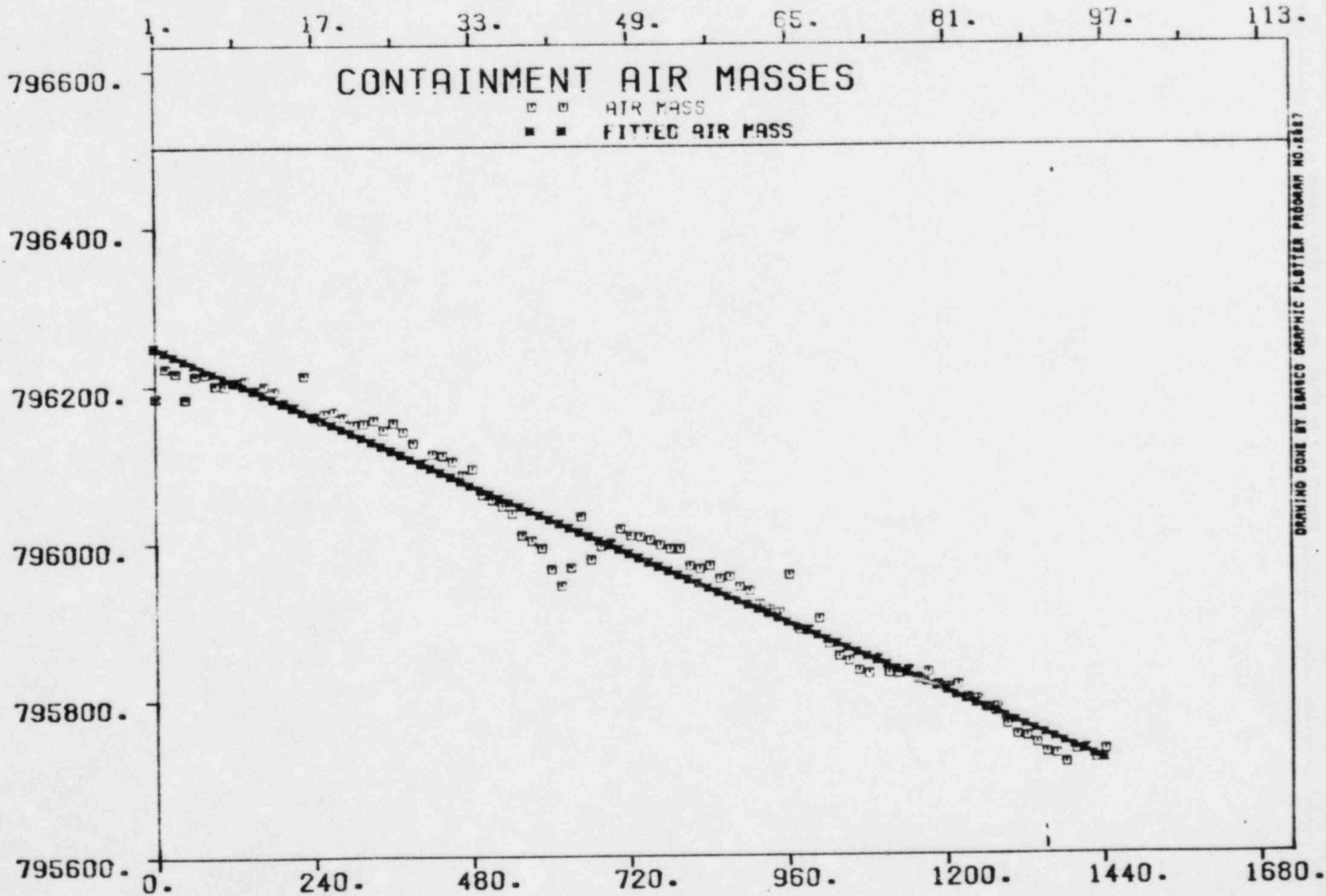
AUG. TEM - CONTAINMENT MEAN TEMPERATURE CALCULATED FROM VOLUMETRICALLY WEIGHTED RTD SENSOR INDICATIONS.
AVE. PRE - PRIMARY CONTAINMENT PRESSURE INDICATION.
VAP. PRE - CONTAINMENT VAPOR PRESSURE CALCULATED FROM VOLUMETRICALLY WEIGHTED RHD SENSOR INDICATIONS.
LEAK SIM - SIMPLE TOTAL TIME LEAKAGE RATE.
LEAK MAS - LEAKAGE RATE COMPUTED FROM FIRST ORDER REGRESSION OF AIR MASS DATA.
AIR MASS - CONTAINMENT AIR MASS.

NOTE FOR TABULAR DATA -
TABLE VALUES OF ZERO SIGNIFY DATA IS NOT APPLICABLE TO THE CALCULATION.

NOTE FOR CURVES -

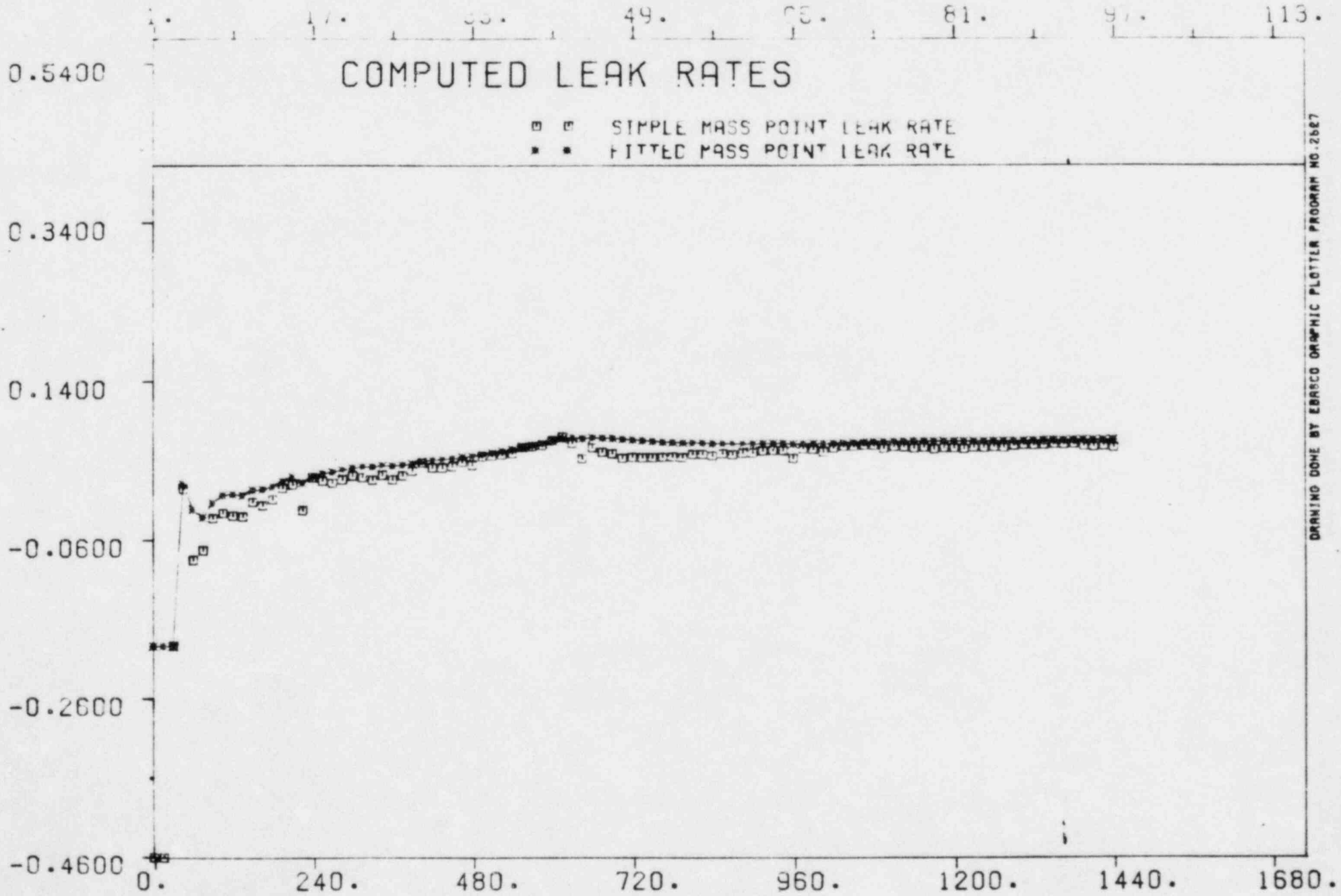
1. TOP ABSCISSA SCALE REPRESENTS SAMPLE NUMBERS.
2. AIR MASS IS THE CALCULATED CONTAINMENT AIR MASS AND FITTED AIR MASS IS THE LINEAR LEAST SQUARE FIT OF THE AIR MASSES.
3. SIMPLE MASS POINT IS THE TOTAL TIME LEAKAGE RATE AND FITTED MASS POINT IS THE LEAKAGE RATE COMPUTED FROM FIRST ORDER REGRESSION OF AIR MASS DATA.
4. UCL IS THE UPPER LIMIT OF THE 95% CONFIDENCE LEVEL OF AIR MASS DATA.

CONTAINMENT AIR MASS (LBS)



DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM NO. 2887

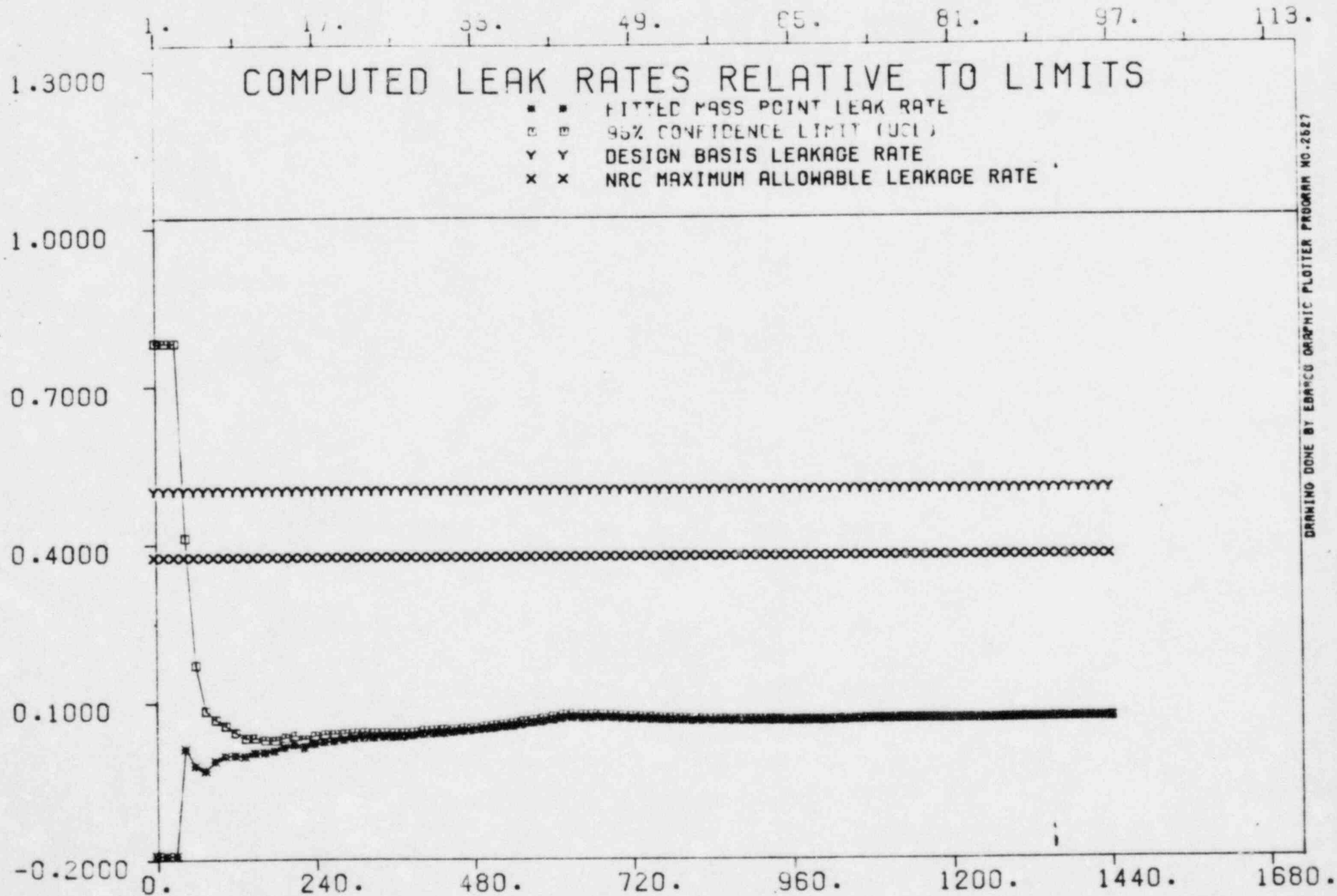
PER CENT PER DAY BY WEIGHT



DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM NO. 2687

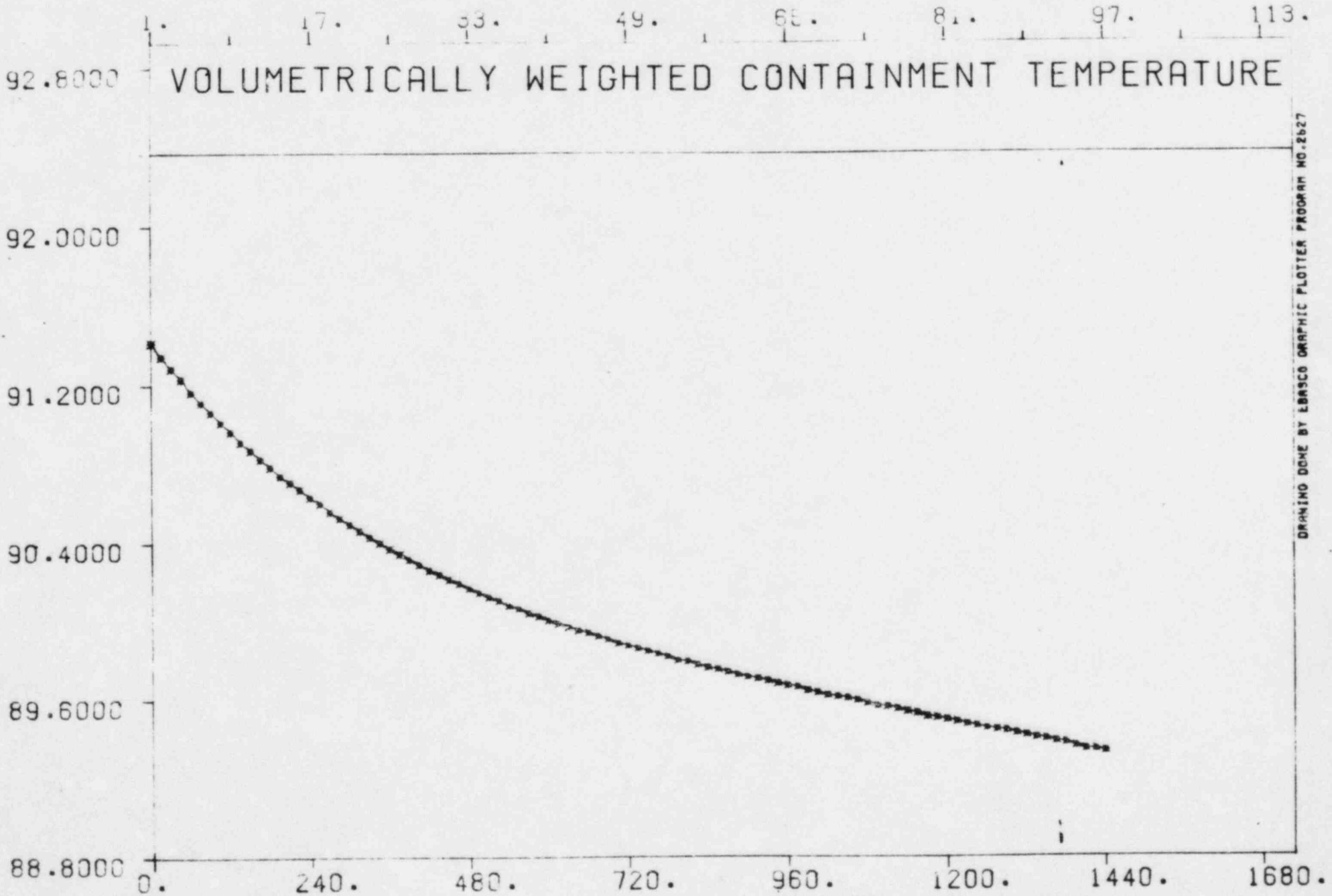
EBASCO SERVICES INCORPORATED

PER CENT PER DAY BY WEIGHT



DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM NO. 2627

EBASCO SERVICES INCORPORATED

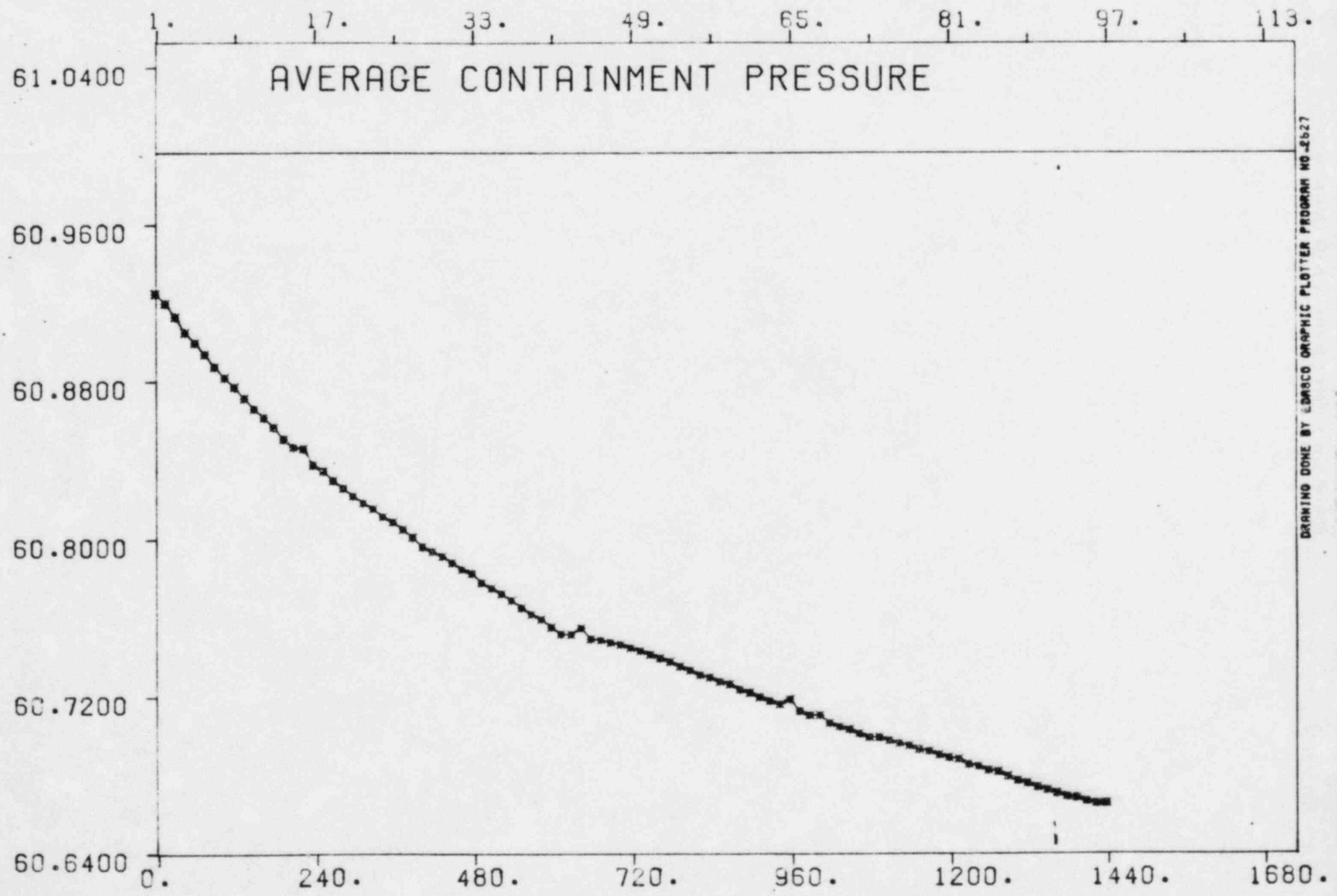


TEMPERATURE IN DEGREES FAHRENHEIT

DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM NO. 2627

EBASCO SERVICES INCORPORATED

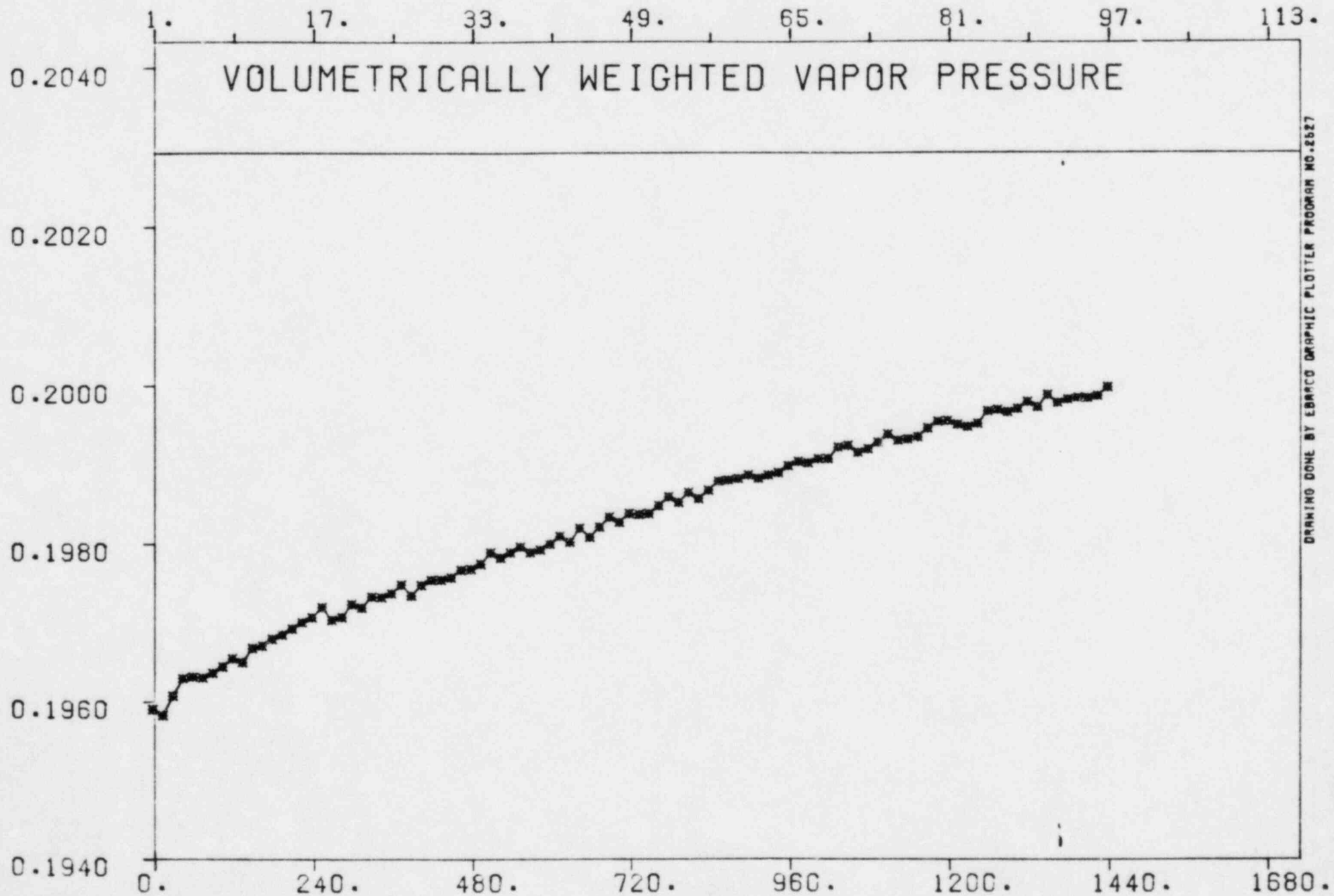
PRESSURE IN PSIA



DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM NO. 2627

EBASCO SERVICES INCORPORATED

VAPOR PRESSURE IN PSIA



DRAWING DONE BY EBASCO GRAPHIC PLOTTER PROGRAM NO. 6527

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	AUG. TEM DEG. F	AUG. PRE PSIA	VAP. PRE PSIA	LEAK SIM PER CENT	LEAK MAS PER CENT	AIR MASS POUNDS
1	0	91.414	60.9252	0.1959	0.000	0.000	796185
2	15	91.344	60.9203	0.1958	-0.460	0.000	796223
3	30	91.284	60.9134	0.1961	-0.193	-0.193	796217
4	45	91.232	60.9054	0.1963	0.005	0.012	796184
5	60	91.164	60.9002	0.1963	-0.084	-0.020	796213
6	75	91.109	60.8942	0.1963	-0.073	-0.030	796215
7	90	91.060	60.8879	0.1964	-0.032	-0.012	796201
8	105	91.009	60.8823	0.1964	-0.025	-0.002	796200
9	120	90.962	60.8775	0.1965	-0.029	-0.001	796204
10	135	90.910	60.8719	0.1965	-0.030	-0.003	796207
11	150	90.869	60.8666	0.1967	-0.012	0.004	796195
12	165	90.825	60.8622	0.1967	-0.016	0.005	796200
13	180	90.784	60.8573	0.1968	-0.008	0.008	796193
14	195	90.738	60.8511	0.1968	0.006	0.015	796179
15	210	90.705	60.8471	0.1969	0.010	0.020	796173
16	225	90.668	60.8462	0.1970	-0.022	0.013	796213
17	240	90.630	60.8380	0.1971	0.019	0.021	796160
18	255	90.598	60.8349	0.1972	0.015	0.024	796164
19	270	90.554	60.8301	0.1970	0.012	0.026	796167
20	285	90.523	60.8262	0.1971	0.016	0.029	796159
21	300	90.492	60.8223	0.1972	0.021	0.031	796150
22	315	90.460	60.8188	0.1972	0.019	0.033	796151
23	330	90.428	60.8157	0.1973	0.016	0.033	796156
24	345	90.400	60.8117	0.1973	0.022	0.034	796143
25	360	90.369	60.8090	0.1974	0.016	0.034	796152
26	375	90.343	60.8053	0.1975	0.021	0.035	796141
27	390	90.317	60.8012	0.1973	0.027	0.036	796126
28	405	90.290	60.7965	0.1975	0.037	0.040	796101
29	420	90.260	60.7941	0.1975	0.031	0.041	796112
30	435	90.239	60.7917	0.1975	0.031	0.042	796110
31	450	90.214	60.7884	0.1976	0.033	0.043	796103
32	465	90.194	60.7850	0.1977	0.038	0.045	796086
33	480	90.170	60.7829	0.1977	0.034	0.046	796094
34	495	90.148	60.7781	0.1977	0.045	0.049	796061
35	510	90.127	60.7753	0.1979	0.046	0.051	796054
36	525	90.107	60.7724	0.1978	0.048	0.053	796046
37	540	90.082	60.7691	0.1979	0.050	0.055	796037
38	555	90.067	60.7653	0.1980	0.057	0.058	796009
39	570	90.043	60.7621	0.1979	0.058	0.060	796002
40	585	90.027	60.7596	0.1979	0.060	0.063	795992
41	600	90.007	60.7556	0.1980	0.066	0.065	795966
42	615	89.989	60.7520	0.1981	0.071	0.069	795944
43	630	89.972	60.7518	0.1980	0.062	0.070	795967
44	645	89.955	60.7550	0.1982	0.043	0.069	796032
45	660	89.943	60.7495	0.1981	0.057	0.070	795977
46	675	89.925	60.7489	0.1982	0.051	0.070	795994
47	690	89.910	60.7477	0.1983	0.049	0.069	795998
48	705	89.889	60.7467	0.1983	0.043	0.068	796016
49	720	89.879	60.7450	0.1984	0.045	0.067	796007
50	735	89.866	60.7434	0.1984	0.044	0.066	796006

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE NUMBER	DELTA MINS	AUG. TEM DEG. F	AUG. PRE PSIA	VAP. PRE PSIA	LEAK SIM PER CENT	LEAK MAS PER CENT	AIR MASS POUNDS
51	750	89.852	60.7416	0.1984	0.044	0.066	796002
52	765	89.838	60.7397	0.1985	0.045	0.065	795996
53	780	89.824	60.7378	0.1986	0.045	0.064	795990
54	795	89.803	60.7354	0.1985	0.044	0.064	795990
55	810	89.798	60.7334	0.1986	0.048	0.063	795969
56	825	89.780	60.7311	0.1986	0.048	0.063	795965
57	840	89.766	60.7299	0.1987	0.046	0.063	795969
58	855	89.757	60.7277	0.1988	0.049	0.062	795952
59	870	89.743	60.7264	0.1988	0.046	0.062	795955
60	885	89.729	60.7239	0.1988	0.050	0.062	795942
61	900	89.716	60.7222	0.1989	0.050	0.062	795937
62	915	89.708	60.7199	0.1988	0.052	0.062	795920
63	930	89.697	60.7181	0.1989	0.053	0.062	795912
64	945	89.682	60.7163	0.1989	0.053	0.062	795909
65	960	89.670	60.7188	0.1990	0.043	0.062	795957
66	975	89.663	60.7127	0.1990	0.055	0.062	795887
67	990	89.645	60.7106	0.1990	0.054	0.062	795887
68	1005	89.634	60.7106	0.1991	0.051	0.062	795901
69	1020	89.620	60.7066	0.1991	0.056	0.062	795869
70	1035	89.612	60.7047	0.1992	0.058	0.063	795853
71	1050	89.604	60.7033	0.1992	0.058	0.063	795847
72	1065	89.593	60.7011	0.1991	0.060	0.064	795834
73	1080	89.578	60.6992	0.1992	0.059	0.064	795831
74	1095	89.564	60.6992	0.1993	0.055	0.064	795850
75	1110	89.561	60.6975	0.1994	0.058	0.064	795831
76	1125	89.550	60.6961	0.1993	0.057	0.065	795830
77	1140	89.536	60.6949	0.1993	0.056	0.065	795834
78	1155	89.527	60.6931	0.1993	0.057	0.065	795823
79	1170	89.511	60.6922	0.1994	0.055	0.065	795832
80	1185	89.504	60.6903	0.1995	0.056	0.065	795816
81	1200	89.494	60.6889	0.1995	0.056	0.065	795813
82	1215	89.485	60.6881	0.1995	0.055	0.065	795816
83	1230	89.473	60.6855	0.1995	0.057	0.065	795799
84	1245	89.464	60.6844	0.1995	0.056	0.065	795797
85	1260	89.453	60.6825	0.1997	0.057	0.065	795786
86	1275	89.446	60.6818	0.1997	0.056	0.065	795787
87	1290	89.441	60.6795	0.1997	0.059	0.065	795765
88	1305	89.428	60.6772	0.1997	0.060	0.065	795751
89	1320	89.418	60.6759	0.1998	0.060	0.066	795749
90	1335	89.406	60.6739	0.1997	0.060	0.066	795741
91	1350	89.400	60.6725	0.1999	0.061	0.066	795729
92	1365	89.387	60.6709	0.1998	0.061	0.066	795727
93	1380	89.379	60.6692	0.1998	0.062	0.066	795715
94	1395	89.362	60.6686	0.1998	0.059	0.066	795731
95	1410	89.346	60.6669	0.1998	0.058	0.066	795734
96	1425	89.343	60.6657	0.1999	0.059	0.067	795721
97	1440	89.334	60.6656	0.2000	0.057	0.066	795732

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	TEMP 1 DEG. F	TEMP 2 DEG. F	TEMP 3 DEG. F	TEMP 4 DEG. F	TEMP 5 DEG. F	TEMP 6 DEG. F
1	0	91.440	91.426	91.451	91.571	91.566	91.774
2	15	91.352	91.382	91.385	91.478	91.467	91.703
3	30	91.275	91.283	91.303	91.406	91.417	91.719
4	45	91.214	91.222	91.237	91.340	91.351	91.714
5	60	91.148	91.167	91.165	91.285	91.291	91.527
6	75	91.081	91.073	91.105	91.203	91.214	91.555
7	90	91.026	91.002	91.039	91.165	91.165	91.478
8	105	90.971	90.963	90.989	91.088	91.115	91.390
9	120	90.905	90.903	90.923	91.033	91.044	91.362
10	135	90.855	90.826	90.863	90.972	91.000	91.313
11	150	90.800	90.787	90.824	90.917	90.939	91.296
12	165	90.767	90.771	90.764	90.884	90.906	91.198
13	180	90.706	90.705	90.731	90.835	90.846	91.143
14	195	90.657	90.650	90.671	90.775	90.802	91.082
15	210	90.618	90.650	90.632	90.742	90.764	91.044
16	225	90.579	90.600	90.583	90.698	90.709	91.005
17	240	90.541	90.572	90.522	90.665	90.676	90.901
18	255	90.475	90.473	90.506	90.599	90.626	90.989
19	270	90.441	90.413	90.478	90.577	90.582	90.967
20	285	90.414	90.385	90.401	90.544	90.555	90.956
21	300	90.392	90.391	90.383	90.489	90.516	90.808
22	315	90.348	90.325	90.363	90.467	90.472	90.857
23	330	90.298	90.319	90.346	90.423	90.428	90.720
24	345	90.276	90.292	90.291	90.401	90.434	90.714
25	360	90.243	90.253	90.264	90.379	90.390	90.698
26	375	90.215	90.198	90.236	90.313	90.357	90.659
27	390	90.193	90.149	90.203	90.319	90.346	90.725
28	405	90.166	90.143	90.165	90.297	90.308	90.615
29	420	90.121	90.099	90.126	90.198	90.269	90.593
30	435	90.121	90.099	90.104	90.231	90.242	90.588
31	450	90.088	90.077	90.088	90.198	90.231	90.533
32	465	90.055	90.061	90.049	90.154	90.192	90.483
33	480	90.039	90.006	90.027	90.148	90.170	90.533
34	495	90.028	89.995	90.022	90.137	90.165	90.516
35	510	89.989	89.967	89.989	90.121	90.121	90.439
36	525	89.978	89.940	89.951	90.049	90.115	90.434
37	540	89.956	89.935	89.940	90.060	90.082	90.379
38	555	89.929	89.913	89.934	90.044	90.060	90.330
39	570	89.912	89.880	89.918	90.033	90.038	90.439
40	585	89.890	89.907	89.891	89.989	90.038	90.291
41	600	89.868	89.891	89.885	89.978	90.011	90.264
42	615	89.852	89.842	89.858	89.967	89.989	90.286
43	630	89.835	89.804	89.825	89.945	89.978	90.313
44	645	89.813	89.815	89.814	89.923	89.945	90.258
45	660	89.803	89.788	89.803	89.907	89.923	90.236
46	675	89.775	89.771	89.776	89.890	89.901	90.225
47	690	89.759	89.786	89.770	89.879	89.890	90.148
48	705	89.737	89.744	89.759	89.863	89.885	90.165
49	720	89.715	89.739	89.737	89.835	89.852	90.220
50	735	89.720	89.695	89.732	89.835	89.863	90.214

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE UMBER	DELTA MINS	TEMP 1		TEMP 2		TEMP 3		TEMP 4		TEMP 5		TEMP 6	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
51	750	89.698		89.717		89.694		89.819		89.852		90.148	
52	765	89.687		89.668		89.677		89.797		89.819		90.088	
53	780	89.671		89.673		89.677		89.792		89.786		90.104	
54	795	89.649		89.635		89.644		89.731		89.792		90.033	
55	810	89.632		89.641		89.623		89.742		89.770		90.176	
56	825	89.611		89.570		89.633		89.742		89.742		90.104	
57	840	89.589		89.581		89.623		89.726		89.720		90.121	
58	855	89.589		89.652		89.617		89.715		89.709		89.995	
59	870	89.572		89.554		89.573		89.698		89.720		90.027	
60	885	89.561		89.565		89.573		89.671		89.698		90.005	
61	900	89.545		89.548		89.551		89.665		89.698		89.956	
62	915	89.539		89.521		89.551		89.660		89.676		89.967	
63	930	89.517		89.488		89.562		89.638		89.665		90.027	
64	945	89.506		89.521		89.535		89.649		89.643		89.879	
65	960	89.490		89.483		89.502		89.534		89.627		89.945	
66	975	89.490		89.488		89.497		89.616		89.622		89.962	
67	990	89.468		89.450		89.475		89.594		89.605		89.956	
68	1005	89.457		89.467		89.480		89.561		89.605		89.874	
69	1020	89.435		89.510		89.469		89.567		89.572		89.808	
70	1035	89.430		89.407		89.437		89.556		89.561		89.885	
71	1050	89.424		89.423		89.437		89.534		89.561		89.868	
72	1065	89.424		89.390		89.420		89.545		89.561		89.918	
73	1080	89.386		89.352		89.393		89.495		89.539		89.852	
74	1095	89.386		89.412		89.398		89.512		89.523		89.775	
75	1110	89.369		89.369		89.376		89.506		89.523		89.835	
76	1125	89.358		89.390		89.349		89.490		89.517		89.879	
77	1140	89.358		89.341		89.360		89.468		89.490		89.874	
78	1155	89.347		89.358		89.365		89.473		89.479		89.775	
79	1170	89.314		89.390		89.354		89.435		89.473		89.725	
80	1185	89.320		89.314		89.327		89.435		89.430		89.813	
81	1200	89.309		89.309		89.327		89.435		89.446		89.703	
82	1215	89.287		89.309		89.311		89.424		89.446		89.753	
83	1230	89.303		89.303		89.278		89.424		89.440		89.659	
84	1245	89.287		89.276		89.294		89.408		89.440		89.698	
85	1260	89.270		89.309		89.272		89.358		89.413		89.698	
86	1275	89.259		89.254		89.278		89.375		89.408		89.665	
87	1290	89.248		89.265		89.240		89.353		89.369		89.769	
88	1305	89.243		89.243		89.245		89.358		89.380		89.665	
89	1320	89.243		89.211		89.251		89.325		89.386		89.659	
90	1335	89.210		89.249		89.223		89.331		89.342		89.665	
91	1350	89.199		89.167		89.223		89.314		89.353		89.681	
92	1365	89.177		89.194		89.218		89.309		89.303		89.637	
93	1380	89.188		89.178		89.196		89.309		89.309		89.615	
94	1395	89.172		89.151		89.196		89.281		89.309		89.566	
95	1410	89.155		89.151		89.201		89.276		89.292		89.560	
96	1425	89.150		89.178		89.174		89.265		89.287		89.621	
97	1440	89.133		89.145		89.174		89.243		89.270		89.549	

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP 7		TEMP 8		TEMP 9		TEMP 10		TEMP 11		TEMP 12	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
1	0	91.303		91.507		91.420		91.817		91.573		91.506	
2	15	91.221		91.408		91.316		91.740		91.502		91.401	
3	30	91.111		91.342		91.261		91.620		91.409		91.231	
4	45	91.083		91.259		91.190		91.609		91.349		91.275	
5	60	90.984		91.193		91.135		91.471		91.272		91.198	
6	75	90.913		91.138		91.042		91.362		91.223		91.099	
7	90	90.847		91.072		90.998		91.389		91.129		91.022	
8	105	90.803		91.012		90.949		91.312		91.107		90.956	
9	120	90.748		90.962		90.883		91.224		91.053		90.995	
10	135	90.671		90.902		90.828		91.175		90.927		90.846	
11	150	90.643		90.841		90.773		91.153		90.932		90.808	
12	165	90.583		90.797		90.718		91.087		90.850		90.698	
13	180	90.522		90.759		90.669		91.049		90.833		90.637	
14	195	90.489		90.704		90.636		91.005		90.795		90.643	
15	210	90.456		90.687		90.592		90.972		90.768		90.665	
16	225	90.440		90.638		90.532		90.895		90.702		90.566	
17	240	90.418		90.577		90.510		90.824		90.658		90.549	
18	255	90.319		90.533		90.455		90.857		90.669		90.511	
19	270	90.264		90.500		90.439		90.708		90.543		90.462	
20	285	90.269		90.451		90.351		90.703		90.554		90.390	
21	300	90.231		90.407		90.351		90.747		90.493		90.379	
22	315	90.176		90.401		90.302		90.609		90.499		90.429	
23	330	90.176		90.346		90.280		90.571		90.466		90.302	
24	345	90.104		90.319		90.269		90.620		90.433		90.291	
25	360	90.104		90.297		90.203		90.511		90.329		90.225	
26	375	90.033		90.253		90.197		90.560		90.367		90.132	
27	390	90.006		90.236		90.159		90.406		90.362		90.159	
28	405	89.989		90.203		90.132		90.467		90.247		90.181	
29	420	89.956		90.165		90.115		90.450		90.269		90.038	
30	435	89.951		90.143		90.093		90.434		90.214		90.027	
31	450	89.902		90.137		90.049		90.434		90.186		90.049	
32	465	89.946		90.104		90.022		90.417		90.197		89.984	
33	480	89.837		90.066		89.995		90.368		90.170		90.066	
34	495	89.820		90.055		89.989		90.340		90.093		89.973	
35	510	89.793		90.017		89.934		90.291		90.110		89.946	
36	525	89.788		89.995		89.940		90.264		90.088		89.897	
37	540	89.766		89.973		89.912		90.266		90.049		89.837	
38	555	89.761		89.967		89.885		90.236		90.055		89.869	
39	570	89.706		89.940		89.863		90.154		90.044		89.826	
40	585	89.723		89.918		89.830		90.170		90.000		89.837	
41	600	89.679		89.913		89.819		90.236		89.973		89.858	
42	615	89.663		89.907		89.808		90.143		89.962		89.842	
43	630	89.614		89.864		89.792		90.154		89.929		89.733	
44	645	89.630		89.869		89.732		90.143		89.929		89.722	
45	660	89.597		89.826		89.748		90.137		89.924		89.755	
46	675	89.608		89.815		89.710		90.165		89.902		89.744	
47	690	89.597		89.799		89.710		90.077		89.902		89.722	
48	705	89.565		89.733		89.671		90.104		89.805		89.749	
49	720	89.554		89.782		89.677		90.016		89.832		89.630	
50	735	89.548		89.755		89.622		90.060		89.848		89.619	

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE NUMBER	DELTA MINS	TEMP 7 DEG. F	TEMP 8 DEG. F	TEMP 9 DEG. F	TEMP 10 DEG. F	TEMP 11 DEG. F	TEMP 12 DEG. F
51	750	89.527	89.733	89.639	90.022	89.805	89.608
52	765	89.516	89.706	89.639	90.000	89.810	89.679
53	780	89.494	89.711	89.639	90.011	89.772	89.673
54	795	89.483	89.706	89.622	89.956	89.799	89.515
55	810	89.461	89.690	89.584	89.935	89.745	89.570
56	825	89.418	89.673	89.600	90.000	89.794	89.537
57	840	89.418	89.652	89.567	89.929	89.729	89.542
58	855	89.434	89.619	89.562	89.869	89.739	89.662
59	870	89.402	89.619	89.540	89.896	89.701	89.504
60	885	89.391	89.608	89.540	89.907	89.674	89.477
61	900	89.391	89.592	89.524	89.853	89.669	89.581
62	915	89.363	89.570	89.502	89.896	89.669	89.581
63	930	89.336	89.543	89.507	89.853	89.653	89.499
64	945	89.385	89.575	89.474	89.804	89.663	89.477
65	960	89.347	89.554	89.474	89.798	89.615	89.455
66	975	89.320	89.532	89.480	89.755	89.620	89.477
67	990	89.298	89.510	89.458	89.782	89.625	89.461
68	1005	89.298	89.488	89.430	89.722	89.636	89.439
69	1020	89.314	89.472	89.430	89.733	89.604	89.390
70	1035	89.287	89.472	89.414	89.728	89.598	89.357
71	1050	89.298	89.461	89.376	89.777	89.522	89.455
72	1065	89.233	89.434	89.370	89.728	89.511	89.390
73	1080	89.233	89.418	89.381	89.728	89.501	89.303
74	1095	89.222	89.439	89.348	89.673	89.441	89.352
75	1110	89.217	89.434	89.354	89.684	89.522	89.341
76	1125	89.200	89.434	89.348	89.608	89.473	89.286
77	1140	89.189	89.374	89.337	89.673	89.517	89.395
78	1155	89.178	89.401	89.337	89.662	89.457	89.270
79	1170	89.217	89.363	89.304	89.640	89.425	89.286
80	1185	89.146	89.385	89.299	89.629	89.468	89.374
81	1200	89.135	89.341	89.310	89.629	89.408	89.352
82	1215	89.157	89.336	89.250	89.640	89.435	89.248
83	1230	89.129	89.341	89.239	89.613	89.425	89.210
84	1245	89.113	89.314	89.261	89.597	89.387	89.227
85	1260	89.108	89.320	89.239	89.553	89.365	89.199
86	1275	89.091	89.309	89.228	89.531	89.343	89.254
87	1290	89.075	89.281	89.228	89.531	89.392	89.194
88	1305	89.081	89.287	89.184	89.537	89.354	89.254
89	1320	89.053	89.265	89.195	89.542	89.349	89.210
90	1335	89.086	89.271	89.189	89.471	89.381	89.156
91	1350	89.059	89.249	89.173	89.575	89.300	89.134
92	1365	89.053	89.243	89.168	89.537	89.300	89.156
93	1380	89.075	89.227	89.135	89.499	89.327	89.178
94	1395	89.026	89.216	89.146	89.526	89.327	89.205
95	1410	89.004	89.183	89.151	89.488	89.256	89.161
96	1425	88.999	89.205	89.135	89.471	89.311	89.150
97	1440	88.993	89.194	89.096	89.422	89.256	89.167

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE NUMBER	DELTA MINS	TEMP 13		TEMP 14		TEMP 15		TEMP 16		TEMP 17		TEMP 18	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
1	0	91.294		91.039		91.332		91.380		90.049		DELETED	
2	15	91.239		91.039		91.255		91.314		90.038		DELETED	
3	30	91.178		90.957		91.205		91.254		90.055		DELETED	
4	45	91.134		90.902		91.145		91.171		90.000		DELETED	
5	60	91.079		90.836		91.079		91.138		89.984		DELETED	
6	75	91.024		90.775		91.007		91.105		89.962		DELETED	
7	90	90.980		90.737		91.002		91.050		89.907		DELETED	
8	105	90.942		90.676		90.925		91.006		89.901		DELETED	
9	120	90.881		90.654		90.886		90.229		89.874		DELETED	
10	135	90.837		90.605		90.837		90.896		89.858		DELETED	
11	150	90.782		90.544		90.782		90.847		89.847		DELETED	
12	165	90.754		90.533		90.721		90.808		89.836		DELETED	
13	180	90.705		90.489		90.671		90.764		89.792		DELETED	
14	195	90.661		90.423		90.644		90.731		89.792		DELETED	
15	210	90.633		90.396		90.589		90.676		89.770		DELETED	
16	225	90.589		90.346		90.589		90.627		89.754		DELETED	
17	240	90.556		90.313		90.512		90.621		89.715		DELETED	
18	255	90.518		90.319		90.495		90.555		89.688		DELETED	
19	270	90.490		90.242		90.451		90.533		89.677		DELETED	
20	285	90.463		90.225		90.413		90.539		89.650		DELETED	
21	300	90.430		90.214		90.385		90.456		89.639		DELETED	
22	315	90.391		90.192		90.358		90.423		89.584		DELETED	
23	330	90.347		90.132		90.352		90.368		89.578		DELETED	
24	345	90.341		90.143		90.297		90.368		89.584		DELETED	
25	360	90.297		90.099		90.275		90.341		89.573		DELETED	
26	375	90.275		90.071		90.248		90.308		89.551		DELETED	
27	390	90.248		90.033		90.220		90.286		89.524		DELETED	
28	405	90.231		90.011		90.182		90.253		89.502		DELETED	
29	420	90.204		89.973		90.176		90.203		89.469		DELETED	
30	435	90.171		89.962		90.127		90.209		89.463		DELETED	
31	450	90.154		89.919		90.138		90.181		89.425		DELETED	
32	465	90.116		89.913		90.105		90.154		89.436		DELETED	
33	480	90.105		89.886		90.088		90.154		89.403		DELETED	
34	495	90.083		89.859		90.039		90.104		89.387		DELETED	
35	510	90.066		89.859		90.028		90.099		89.381		DELETED	
36	525	90.050		89.837		90.006		90.055		89.370		DELETED	
37	540	90.022		89.816		89.995		90.055		89.337		DELETED	
38	555	90.006		89.778		89.978		90.011		89.343		DELETED	
39	570	89.973		89.761		89.956		89.989		89.299		DELETED	
40	585	89.967		89.745		89.929		90.027		89.315		DELETED	
41	600	89.945		89.707		89.901		89.967		89.294		DELETED	
42	615	89.923		89.712		89.890		89.929		89.266		DELETED	
43	630	89.907		89.712		89.901		89.951		89.261		DELETED	
44	645	89.885		89.669		89.863		89.890		89.255		DELETED	
45	660	89.869		89.658		89.868		89.907		89.233		DELETED	
46	675	89.858		89.658		89.846		89.896		89.211		DELETED	
47	690	89.830		89.647		89.841		89.857		89.211		DELETED	
48	705	89.819		89.636		89.808		89.841		89.200		DELETED	
49	720	89.809		89.604		89.786		89.841		89.189		DELETED	
50	735	89.798		89.582		89.775		89.841		89.189		DELETED	

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE NUMBER	DELTA MINS	TEMP 13		TEMP 14		TEMP 15		TEMP 16		TEMP 17		TEMP 18	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
51	750	89.781		89.609		89.753		89.825		89.173		DELETED	
52	765	89.765		89.593		89.736		89.792		89.184		DELETED	
53	780	89.759		89.544		89.742		89.759		89.151		DELETED	
54	795	89.737		89.539		89.720		89.748		89.168		DELETED	
55	810	89.721		89.533		89.720		89.748		89.107		DELETED	
56	825	89.705		89.495		89.698		89.704		89.124		DELETED	
57	840	89.694		89.485		89.692		89.693		89.118		DELETED	
58	855	89.677		89.495		89.687		89.704		89.118		DELETED	
59	870	89.666		89.495		89.665		89.693		89.113		DELETED	
60	885	89.650		89.463		89.670		89.671		89.091		DELETED	
61	900	89.644		89.457		89.643		89.660		89.091		DELETED	
62	915	89.628		89.425		89.626		89.644		89.080		DELETED	
63	930	89.628		89.425		89.610		89.633		89.069		DELETED	
64	945	89.606		89.409		89.615		89.616		89.074		DELETED	
65	960	89.595		89.414		89.588		89.622		89.064		DELETED	
66	975	89.584		89.398		89.582		89.605		89.064		DELETED	
67	990	89.579		89.392		89.560		89.594		89.058		DELETED	
68	1005	89.551		89.392		89.549		89.567		89.020		DELETED	
69	1020	89.546		89.365		89.566		89.556		89.047		DELETED	
70	1035	89.546		89.338		89.555		89.561		89.014		DELETED	
71	1050	89.524		89.354		89.555		89.545		88.998		DELETED	
72	1065	89.530		89.333		89.522		89.507		88.992		DELETED	
73	1080	89.519		89.327		89.516		89.539		88.976		DELETED	
74	1095	89.502		89.316		89.516		89.507		88.959		DELETED	
75	1110	89.497		89.300		89.500		89.468		88.976		DELETED	
76	1125	89.486		89.305		89.484		89.501		88.965		DELETED	
77	1140	89.480		89.289		89.462		89.496		88.965		DELETED	
78	1155	89.464		89.273		89.467		89.496		88.910		DELETED	
79	1170	89.442		89.284		89.478		89.463		88.932		DELETED	
80	1185	89.437		89.268		89.418		89.413		88.943		DELETED	
81	1200	89.442		89.230		89.445		89.435		88.921		DELETED	
82	1215	89.426		89.251		89.434		89.435		88.921		DELETED	
83	1230	89.415		89.240		89.390		89.419		88.916		DELETED	
84	1245	89.409		89.219		89.407		89.402		88.910		DELETED	
85	1260	89.404		89.186		89.401		89.397		88.888		DELETED	
86	1275	89.393		89.208		89.390		89.391		88.866		DELETED	
87	1290	89.393		89.181		89.363		89.402		88.888		DELETED	
88	1305	89.371		89.192		89.374		89.430		88.888		DELETED	
89	1320	89.365		89.197		89.357		89.364		88.850		DELETED	
90	1335	89.360		89.159		89.363		89.364		88.877		DELETED	
91	1350	89.349		89.148		89.357		89.370		88.839		DELETED	
92	1365	89.338		89.164		89.335		89.353		88.861		DELETED	
93	1380	89.338		89.143		89.324		89.320		88.850		DELETED	
94	1395	89.294		88.644		89.247		89.309		88.850		DELETED	
95	1410	89.278		88.633		89.253		89.276		88.844		DELETED	
96	1425	89.272		88.616		89.236		89.298		88.834		DELETED	
97	1440	89.256		88.633		89.236		89.282		88.844		DELETED	

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE NUMBER	DELTA MINS	TEMP 19		TEMP 20		TEMP 21		TEMP 22		TEMP 23		TEMP 24	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
1	0	89.864		DELETED		91.716		91.851		91.897		93.410	
2	15	89.864		DELETED		91.617		91.736		91.765		93.344	
3	30	89.842		DELETED		91.567		91.686		91.710		93.284	
4	45	89.831		DELETED		91.496		91.598		91.666		93.135	
5	60	89.804		DELETED		91.419		91.527		91.556		93.042	
6	75	89.815		DELETED		91.358		91.494		91.529		92.910	
7	90	89.777		DELETED		91.309		91.417		91.457		92.877	
8	105	89.766		DELETED		91.237		91.346		91.391		92.783	
9	120	89.766		DELETED		91.166		91.291		91.331		92.772	
10	135	89.744		DELETED		91.122		91.252		91.320		92.668	
11	150	89.728		DELETED		91.072		91.175		91.215		92.646	
12	165	89.712		DELETED		91.023		91.137		91.182		92.624	
13	180	89.695		DELETED		90.973		91.088		91.122		92.569	
14	195	89.685		DELETED		90.918		91.038		91.072		92.453	
15	210	89.668		DELETED		90.880		91.005		91.017		92.420	
16	225	89.647		DELETED		90.841		90.950		90.979		92.398	
17	240	89.647		DELETED		90.786		90.901		90.962		92.365	
18	255	89.630		DELETED		90.753		90.862		90.902		92.382	
19	270	89.598		DELETED		90.715		90.824		90.896		92.272	
20	285	89.592		DELETED		90.665		90.796		90.891		92.211	
21	300	89.592		DELETED		90.632		90.752		90.819		92.173	
22	315	89.554		DELETED		90.610		90.703		90.753		92.129	
23	330	89.543		DELETED		90.566		90.714		90.709		92.162	
24	345	89.543		DELETED		90.550		90.654		90.693		92.068	
25	360	89.505		DELETED		90.500		90.626		90.671		92.046	
26	375	89.511		DELETED		90.462		90.582		90.671		92.068	
27	390	89.483		DELETED		90.434		90.549		90.627		91.953	
28	405	89.478		DELETED		90.418		90.533		90.583		91.953	
29	420	89.467		DELETED		90.368		90.489		90.588		91.872	
30	435	89.456		DELETED		90.352		90.456		90.506		91.865	
31	450	89.429		DELETED		90.319		90.423		90.511		91.848	
32	465	89.424		DELETED		90.297		90.412		90.511		91.848	
33	480	89.413		DELETED		90.258		90.373		90.473		91.826	
34	495	89.396		DELETED		90.264		90.368		90.423		91.799	
35	510	89.386		DELETED		90.236		90.341		90.462		91.755	
36	525	89.380		DELETED		90.209		90.313		90.418		91.777	
37	540	89.364		DELETED		90.176		90.291		90.341		91.744	
38	555	89.364		DELETED		90.165		90.264		90.352		91.689	
39	570	89.347		DELETED		90.137		90.258		90.313		91.672	
40	585	89.331		DELETED		90.121		90.231		90.302		91.661	
41	600	89.320		DELETED		90.099		90.192		90.236		91.606	
42	615	89.309		DELETED		90.082		90.187		90.231		91.601	
43	630	89.299		DELETED		90.055		90.165		90.242		91.568	
44	645	89.293		DELETED		90.044		90.148		90.192		91.628	
45	660	89.277		DELETED		90.022		90.132		90.236		91.557	
46	675	89.277		DELETED		90.000		90.110		90.159		91.551	
47	690	89.271		DELETED		89.989		90.099		90.137		91.540	
48	705	89.244		DELETED		89.967		90.066		90.115		91.507	
49	720	89.250		DELETED		89.967		90.066		90.137		91.502	
50	735	89.244		DELETED		89.945		90.060		90.148		91.463	

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE NUMBER	DELTA MINS	TEMP 19 DEG. F	TEMP 20 DEG. F	TEMP 21 DEG. F	TEMP 22 DEG. F	TEMP 23 DEG. F	TEMP 24 DEG. F
51	750	89.293	DELETED	89.929	90.038	90.110	91.469
52	765	89.222	DELETED	89.907	90.022	90.115	91.458
53	780	89.201	DELETED	89.879	90.016	90.027	91.425
54	795	89.195	DELETED	89.879	89.995	90.017	91.386
55	810	89.190	DELETED	89.879	89.984	90.044	91.392
56	825	89.184	DELETED	89.846	89.956	90.011	91.370
57	840	89.190	DELETED	89.830	89.956	90.006	91.375
58	855	89.179	DELETED	89.819	89.940	89.989	91.348
59	870	89.168	DELETED	89.813	89.929	89.978	91.337
60	885	89.168	DELETED	89.797	89.918	89.984	91.315
61	900	89.157	DELETED	89.786	89.901	89.940	91.293
62	915	89.141	DELETED	89.769	89.885	89.945	91.265
63	930	89.141	DELETED	89.780	89.885	89.940	91.249
64	945	89.130	DELETED	89.748	89.874	89.901	91.249
65	960	89.125	DELETED	89.726	89.852	89.951	91.238
66	975	89.125	DELETED	89.726	89.841	89.879	91.221
67	990	89.119	DELETED	89.704	89.819	89.863	91.210
68	1005	89.108	DELETED	89.698	89.808	89.874	91.210
69	1020	89.103	DELETED	89.676	89.808	89.830	91.199
70	1035	89.097	DELETED	89.654	89.781	89.863	91.188
71	1050	89.103	DELETED	89.649	89.764	89.813	91.150
72	1065	89.086	DELETED	89.638	89.775	89.824	91.183
73	1080	89.070	DELETED	89.638	89.764	89.824	91.161
74	1095	89.076	DELETED	89.632	89.737	89.769	91.122
75	1110	89.081	DELETED	89.632	89.737	89.780	91.122
76	1125	89.070	DELETED	89.599	89.720	89.775	91.117
77	1140	88.956	DELETED	89.572	89.698	89.726	91.100
78	1155	88.951	DELETED	89.588	89.693	89.759	91.100
79	1170	88.967	DELETED	89.561	89.682	89.715	91.089
80	1185	88.951	DELETED	89.555	89.677	89.704	91.089
81	1200	88.951	DELETED	89.539	89.671	89.709	91.029
82	1215	88.929	DELETED	89.539	89.644	89.693	91.034
83	1230	88.929	DELETED	89.523	89.633	89.682	91.029
84	1245	88.918	DELETED	89.506	89.633	89.715	91.023
85	1260	88.907	DELETED	89.512	89.633	89.704	91.023
86	1275	88.907	DELETED	89.495	89.622	89.687	91.007
87	1290	88.902	DELETED	89.490	89.600	89.632	90.990
88	1305	88.896	DELETED	89.473	89.583	89.632	90.979
89	1320	88.896	DELETED	89.462	89.583	89.687	90.957
90	1335	88.896	DELETED	89.462	89.561	89.605	90.974
91	1350	88.880	DELETED	89.462	89.561	89.605	90.957
92	1365	88.880	DELETED	89.446	89.556	89.599	90.952
93	1380	88.880	DELETED	89.413	89.556	89.572	90.946
94	1395	88.874	DELETED	89.413	89.539	89.566	90.913
95	1410	88.869	DELETED	89.396	89.523	89.539	90.902
96	1425	88.880	DELETED	89.402	89.512	89.544	90.941
97	1440	88.864	DELETED	89.396	89.507	89.533	90.891

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP 25		TEMP 26		TEMP 27		TEMP 28		TEMP 29		TEMP 30	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
1	0	91.719		91.456		91.467		91.610		91.381		91.489	
2	15	91.648		91.357		91.390		91.516		91.392		91.440	
3	30	91.533		91.291		91.335		91.450		91.288		91.380	
4	45	91.473		91.269		91.329		91.378		91.222		91.297	
5	60	91.440		91.159		91.208		91.290		91.211		91.226	
6	75	91.374		91.121		91.186		91.235		91.106		91.161	
7	90	91.298		91.060		91.153		91.207		91.062		91.100	
8	105	91.248		91.038		91.071		91.152		90.996		91.046	
9	120	91.166		90.951		91.055		91.064		90.952		90.974	
10	135	91.122		90.929		91.011		91.031		90.881		90.920	
11	150	91.073		90.852		90.906		90.965		90.892		90.859	
12	165	91.007		90.841		90.906		90.921		90.809		90.854	
13	180	90.986		90.786		90.857		90.871		90.782		90.794	
14	195	90.947		90.720		90.780		90.821		90.737		90.755	
15	210	90.898		90.714		90.769		90.777		90.660		90.701	
16	225	90.860		90.665		90.709		90.733		90.655		90.657	
17	240	90.827		90.659		90.670		90.695		90.633		90.608	
18	255	90.778		90.588		90.621		90.700		90.534		90.586	
19	270	90.723		90.571		90.582		90.606		90.517		90.542	
20	285	90.673		90.516		90.577		90.584		90.506		90.487	
21	300	90.668		90.467		90.516		90.540		90.440		90.465	
22	315	90.619		90.440		90.516		90.518		90.424		90.432	
23	330	90.613		90.418		90.450		90.463		90.363		90.411	
24	345	90.553		90.385		90.439		90.419		90.341		90.372	
25	360	90.515		90.330		90.428		90.391		90.292		90.334	
26	375	90.471		90.308		90.401		90.375		90.286		90.296	
27	390	90.476		90.297		90.341		90.342		90.248		90.285	
28	405	90.416		90.280		90.302		90.331		90.248		90.246	
29	420	90.400		90.231		90.319		90.281		90.209		90.219	
30	435	90.400		90.220		90.313		90.265		90.171		90.208	
31	450	90.356		90.181		90.236		90.254		90.160		90.164	
32	465	90.350		90.132		90.220		90.221		90.154		90.153	
33	480	90.301		90.126		90.198		90.204		90.116		90.131	
34	495	90.301		90.121		90.203		90.160		90.077		90.104	
35	510	90.285		90.088		90.159		90.160		90.055		90.071	
36	525	90.268		90.071		90.137		90.121		90.066		90.055	
37	540	90.230		90.027		90.121		90.099		90.028		90.027	
38	555	90.214		90.033		90.082		90.094		89.984		90.016	
39	570	90.175		90.000		90.077		90.033		89.956		90.011	
40	585	90.153		89.989		90.066		90.033		89.956		89.967	
41	600	90.153		89.973		90.038		90.017		89.962		89.934	
42	615	90.126		89.951		89.989		90.017		89.913		89.945	
43	630	90.115		89.919		90.000		89.973		89.907		89.902	
44	645	90.099		89.930		89.983		89.951		89.902		89.891	
45	660	90.099		89.892		89.961		89.940		89.852		89.880	
46	675	90.049		89.843		89.917		89.923		89.880		89.880	
47	690	90.038		89.859		89.950		89.890		89.831		89.863	
48	705	90.022		89.837		89.900		89.852		89.820		89.820	
49	720	90.005		89.837		89.928		89.857		89.825		89.825	
50	735	90.000		89.810		89.889		89.874		89.765		89.803	

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE UMBER	DELTA MINS	TEMP 25 DEG. F	TEMP 26 DEG. F	TEMP 27 DEG. F	TEMP 28 DEG. F	TEMP 29 DEG. F	TEMP 30 DEG. F
51	730	89.967	89.805	89.862	89.835	89.765	89.787
52	765	89.967	89.783	89.839	89.852	89.754	89.743
53	780	89.934	89.778	89.812	89.808	89.748	89.765
54	795	89.917	89.740	89.795	89.813	89.770	89.738
55	810	89.923	89.751	89.806	89.791	89.738	89.710
56	825	89.901	89.745	89.790	89.764	89.666	89.683
57	840	89.884	89.691	89.756	89.742	89.694	89.705
58	855	89.868	89.659	89.756	89.720	89.666	89.683
59	870	89.840	89.713	89.745	89.753	89.656	89.656
60	885	89.840	89.675	89.718	89.725	89.677	89.661
61	900	89.824	89.648	89.723	89.676	89.656	89.656
62	915	89.802	89.648	89.695	89.687	89.628	89.628
63	930	89.840	89.648	89.718	89.665	89.612	89.595
64	945	89.774	89.642	89.673	89.676	89.590	89.595
65	960	89.785	89.610	89.673	89.692	89.595	89.584
66	975	89.769	89.626	89.668	89.643	89.584	89.579
67	990	89.741	89.583	89.629	89.616	89.530	89.557
68	1005	89.736	89.561	89.607	89.605	89.568	89.568
69	1020	89.703	89.566	89.596	89.588	89.541	89.524
70	1035	89.719	89.556	89.635	89.571	89.546	89.524
71	1050	89.692	89.545	89.601	89.566	89.524	89.513
72	1065	89.692	89.523	89.618	89.572	89.519	89.481
73	1080	89.692	89.534	89.574	89.566	89.470	89.497
74	1095	89.681	89.528	89.540	89.544	89.459	89.497
75	1110	89.659	89.501	89.546	89.511	89.486	89.486
76	1125	89.642	89.485	89.540	89.517	89.442	89.464
77	1140	89.642	89.485	89.524	89.517	89.426	89.448
78	1155	89.620	89.458	89.529	89.495	89.437	89.453
79	1170	89.598	89.436	89.491	89.511	89.431	89.426
80	1185	89.593	89.420	89.502	89.473	89.410	89.415
81	1200	89.571	89.420	89.480	89.478	89.410	89.431
82	1215	89.582	89.436	89.463	89.456	89.377	89.415
83	1230	89.582	89.409	89.468	89.456	89.399	89.382
84	1245	89.582	89.382	89.468	89.418	89.382	89.382
85	1260	89.532	89.398	89.452	89.434	89.382	89.366
86	1275	89.516	89.371	89.468	89.401	89.388	89.366
87	1290	89.549	89.388	89.441	89.396	89.371	89.355
88	1305	89.516	89.371	89.424	89.396	89.322	89.349
89	1320	89.516	89.344	89.408	89.358	89.327	89.327
90	1335	89.494	89.312	89.385	89.358	89.317	89.317
91	1350	89.499	89.333	89.380	89.363	89.311	89.317
92	1365	89.505	89.290	89.363	89.352	89.306	89.306
93	1380	89.466	89.322	89.391	89.330	89.284	89.306
94	1395	89.444	89.322	89.369	89.352	89.278	89.278
95	1410	89.444	89.295	89.358	89.319	89.251	89.267
96	1425	89.428	89.274	89.341	89.303	89.267	89.251
97	1440	89.455	89.268	89.336	89.303	89.245	89.273

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE NUMBER	DELTA MINS	TEMP 31 DEG. F	TEMP 32 DEG. F	TEMP 33 DEG. F	TEMP 34 DEG. F	TEMP 35 DEG. F	TEMP 36 DEG. F
1	0	91.458	91.303	91.325	91.015	91.499	91.276
2	15	91.359	91.253	91.264	90.949	91.389	91.210
3	30	91.321	91.187	91.204	90.916	91.362	91.155
4	45	91.266	91.143	91.072	90.883	91.268	91.122
5	60	91.277	91.061	91.094	90.951	91.202	91.045
6	75	91.134	91.034	91.067	90.807	91.169	91.001
7	90	91.156	90.951	91.012	90.763	91.104	90.952
8	105	91.178	90.913	90.907	90.741	91.093	90.913
9	120	91.084	90.885	90.907	90.708	91.043	90.875
10	135	90.974	90.847	90.847	90.648	91.071	90.831
11	150	91.090	90.803	90.797	90.642	91.016	90.770
12	165	90.935	90.748	90.803	90.587	90.966	90.710
13	180	90.952	90.770	90.726	90.560	90.955	90.682
14	195	90.908	90.720	90.682	90.527	90.878	90.638
15	210	90.814	90.654	90.660	90.494	90.862	90.611
16	225	90.930	90.616	90.605	90.488	90.862	90.561
17	240	90.765	90.555	90.566	90.461	90.813	90.528
18	255	90.787	90.495	90.533	90.434	90.818	90.506
19	270	90.638	90.533	90.517	90.406	90.796	90.468
20	285	90.688	90.495	90.445	90.346	90.736	90.451
21	300	90.732	90.484	90.434	90.351	90.703	90.402
22	315	90.649	90.407	90.407	90.313	90.703	90.358
23	330	90.572	90.407	90.401	90.285	90.758	90.347
24	345	90.539	90.374	90.313	90.263	90.637	90.319
25	360	90.611	90.401	90.319	90.241	90.609	90.281
26	375	90.594	90.319	90.291	90.209	90.620	90.252
27	390	90.512	90.291	90.269	90.203	90.593	90.226
28	405	90.517	90.280	90.242	90.165	90.544	90.204
29	420	90.528	90.275	90.192	90.148	90.593	90.176
30	435	90.457	90.220	90.198	90.148	90.538	90.143
31	450	90.462	90.170	90.198	90.110	90.472	90.127
32	465	90.413	90.170	90.132	90.071	90.467	90.105
33	480	90.347	90.137	90.110	90.049	90.395	90.083
34	495	90.336	90.104	90.104	90.033	90.428	90.061
35	510	90.297	90.088	90.077	90.022	90.450	90.039
36	525	90.352	90.104	90.055	90.000	90.357	90.011
37	540	90.297	90.049	90.038	89.973	90.417	90.000
38	555	90.259	90.022	90.027	89.923	90.450	89.989
39	570	90.242	90.011	90.000	89.934	90.357	89.951
40	585	90.215	90.006	89.973	89.907	90.351	89.945
41	600	90.154	90.000	89.967	89.902	90.335	89.913
42	615	90.204	90.006	89.940	89.847	90.302	89.896
43	630	90.209	89.973	89.929	89.880	90.269	89.890
44	645	90.154	89.918	89.907	89.830	90.253	89.874
45	660	90.088	89.918	89.907	89.852	90.351	89.952
46	675	90.143	89.924	89.863	89.836	90.225	89.852
47	690	90.105	89.907	89.880	89.803	90.247	89.825
48	705	90.116	89.886	89.858	89.814	90.220	89.797
49	720	90.099	89.848	89.836	89.770	90.192	89.781
50	735	90.055	89.837	89.809	89.754	90.187	89.770

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE NUMBER	DELTA MINS	TEMP 31 DEG. F	TEMP 32 DEG. F	TEMP 33 DEG. F	TEMP 34 DEG. F	TEMP 35 DEG. F	TEMP 36 DEG. F
51	750	90.094	89.826	89.809	89.765	90.236	89.748
52	765	90.072	89.869	89.787	89.716	90.132	89.737
53	780	90.050	89.902	89.776	89.732	90.121	89.731
54	795	90.033	89.842	89.776	89.743	90.115	89.742
55	810	90.011	89.848	89.754	89.699	90.176	89.709
56	825	89.989	89.771	89.737	89.661	90.176	89.698
57	840	89.995	89.793	89.726	89.683	90.077	89.688
58	855	89.946	89.820	89.726	89.666	90.060	89.660
59	870	89.967	89.771	89.705	89.644	90.060	89.649
60	885	89.935	89.733	89.672	89.623	89.995	89.633
61	900	89.864	89.717	89.677	89.639	90.066	89.622
62	915	89.929	89.701	89.661	89.617	90.099	89.633
63	930	89.875	89.684	89.644	89.595	90.082	89.616
64	945	89.897	89.684	89.639	89.601	90.049	89.605
65	960	89.869	89.679	89.633	89.595	90.033	89.578
66	975	89.848	89.668	89.612	89.534	90.044	89.561
67	990	89.848	89.635	89.601	89.573	90.016	89.567
68	1005	89.880	89.690	89.579	89.551	90.005	89.556
69	1020	89.782	89.641	89.584	89.557	89.984	89.534
70	1035	89.831	89.652	89.568	89.535	89.913	89.529
71	1050	89.810	89.641	89.573	89.530	89.989	89.518
72	1065	89.799	89.592	89.562	89.502	89.962	89.507
73	1080	89.782	89.603	89.546	89.519	89.897	89.501
74	1095	89.793	89.624	89.524	89.497	89.897	89.496
75	1110	89.782	89.565	89.530	89.475	89.875	89.490
76	1125	89.723	89.559	89.502	89.458	89.973	89.468
77	1140	89.733	89.554	89.497	89.447	89.891	89.463
78	1155	89.744	89.548	89.480	89.453	89.891	89.435
79	1170	89.684	89.526	89.475	89.453	89.864	89.424
80	1185	89.701	89.548	89.469	89.431	89.820	89.435
81	1200	89.706	89.521	89.442	89.431	89.869	89.413
82	1215	89.690	89.543	89.453	89.415	89.820	89.402
83	1230	89.706	89.521	89.437	89.387	89.820	89.397
84	1245	89.657	89.472	89.426	89.382	89.799	89.386
85	1260	89.619	89.483	89.420	89.393	89.761	89.391
86	1275	89.679	89.467	89.393	89.382	89.831	89.370
87	1290	89.646	89.499	89.387	89.371	89.837	89.370
88	1305	89.657	89.428	89.393	89.365	89.788	89.353
89	1320	89.630	89.467	89.365	89.360	89.793	89.342
90	1335	89.592	89.445	89.371	89.365	89.712	89.331
91	1350	89.592	89.423	89.360	89.316	89.831	89.326
92	1365	89.576	89.450	89.354	89.322	89.684	89.331
93	1380	89.559	89.407	89.338	89.305	89.717	89.304
94	1395	89.570	89.379	89.333	89.311	89.755	89.320
95	1410	89.565	89.418	89.333	89.311	89.717	89.292
96	1425	89.538	89.374	89.322	89.300	89.684	89.304
97	1440	89.581	89.434	89.211	89.278	89.690	89.265

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	TEMP 37 DEG. F	TEMP 38 DEG. F	TEMP 39 DEG. F	TEMP 40 DEG. F	PRES 1 PSIA	HUM 1 FRACTION
1	0	90.198	90.435	90.902	DELETED	60.925	0.263
2	15	90.192	90.396	90.803	DELETED	60.920	0.264
3	30	90.176	90.374	90.825	DELETED	60.915	0.265
4	45	90.165	90.347	90.792	DELETED	60.905	0.266
5	60	90.137	90.308	90.720	DELETED	60.900	0.267
6	75	90.115	90.281	90.698	DELETED	60.894	0.267
7	90	90.088	90.248	90.698	DELETED	60.888	0.268
8	105	90.071	90.231	90.621	DELETED	60.882	0.269
9	120	90.066	90.198	90.605	DELETED	60.878	0.269
10	135	89.995	90.165	90.577	DELETED	60.872	0.270
11	150	90.011	90.149	90.517	DELETED	60.867	0.270
12	165	90.000	90.116	90.484	DELETED	60.862	0.271
13	180	89.973	90.094	90.467	DELETED	60.857	0.272
14	195	89.962	90.050	90.412	DELETED	60.851	0.272
15	210	89.929	90.033	90.390	DELETED	60.847	0.273
16	225	89.912	90.022	90.374	DELETED	60.846	0.273
17	240	89.912	89.989	90.352	DELETED	60.838	0.274
18	255	89.891	89.967	90.324	DELETED	60.835	0.274
19	270	89.858	89.962	90.275	DELETED	60.830	0.275
20	285	89.836	89.907	90.275	DELETED	60.826	0.275
21	300	89.836	89.880	90.236	DELETED	60.822	0.275
22	315	89.819	89.852	90.231	DELETED	60.819	0.276
23	330	89.787	89.841	90.203	DELETED	60.816	0.277
24	345	89.770	89.819	90.170	DELETED	60.812	0.277
25	360	89.765	89.792	90.176	DELETED	60.809	0.277
26	375	89.732	89.759	90.126	DELETED	60.805	0.277
27	390	89.732	89.776	90.143	DELETED	60.801	0.278
28	405	89.699	89.726	90.104	DELETED	60.797	0.279
29	420	89.677	89.721	90.093	DELETED	60.794	0.278
30	435	89.661	89.688	90.060	DELETED	60.792	0.279
31	450	89.666	89.650	90.055	DELETED	60.788	0.279
32	465	89.617	89.661	90.055	DELETED	60.785	0.280
33	480	89.628	89.633	90.016	DELETED	60.783	0.280
34	495	89.595	89.611	89.984	DELETED	60.778	0.280
35	510	89.590	89.617	89.973	DELETED	60.775	0.281
36	525	89.562	89.584	89.962	DELETED	60.772	0.281
37	540	89.557	89.546	89.962	DELETED	60.769	0.281
38	555	89.540	89.573	89.956	DELETED	60.765	0.281
39	570	89.535	89.535	89.923	DELETED	60.762	0.281
40	585	89.519	89.518	89.918	DELETED	60.760	0.281
41	600	89.502	89.513	89.891	DELETED	60.756	0.282
42	615	89.491	89.469	89.880	DELETED	60.752	0.282
43	630	89.486	89.480	89.863	DELETED	60.752	0.282
44	645	89.453	89.464	89.847	DELETED	60.755	0.283
45	660	89.453	89.453	89.858	DELETED	60.750	0.283
46	675	89.442	89.425	89.841	DELETED	60.749	0.283
47	690	89.426	89.431	89.825	DELETED	60.748	0.284
48	705	89.415	89.398	89.809	DELETED	60.747	0.284
49	720	89.409	89.409	89.787	DELETED	60.745	0.284
50	735	89.387	89.365	89.798	DELETED	60.743	0.284

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE NUMBER	DELTA MINS	TEMP 37 DEG. F	TEMP 38 DEG. F	TEMP 39 DEG. F	TEMP 40 DEG. F	PRES 1 PSIA	HUM 1 FRACTION
51	750	89.393	89.376	89.776	DELETED	60.742	0.284
52	765	89.376	89.365	89.781	DELETED	60.740	0.284
53	780	89.354	89.371	89.770	DELETED	60.738	0.285
54	795	89.344	89.332	89.748	DELETED	60.735	0.285
55	810	89.327	89.354	89.738	DELETED	60.733	0.285
56	825	89.322	89.354	89.743	DELETED	60.731	0.286
57	840	89.311	89.321	89.710	DELETED	60.730	0.286
58	855	89.311	89.327	89.699	DELETED	60.728	0.286
59	870	89.294	89.305	89.721	DELETED	60.726	0.286
60	885	89.289	89.299	89.694	DELETED	60.724	0.286
61	900	89.278	89.272	89.688	DELETED	60.722	0.286
62	915	89.278	89.278	89.666	DELETED	60.720	0.286
63	930	89.240	89.283	89.666	DELETED	60.718	0.287
64	945	89.251	89.228	89.666	DELETED	60.716	0.287
65	960	89.245	89.250	89.634	DELETED	60.719	0.287
66	975	89.240	89.239	89.645	DELETED	60.713	0.287
67	990	89.201	89.234	89.623	DELETED	60.711	0.288
68	1005	89.212	89.212	89.601	DELETED	60.711	0.287
69	1020	89.201	89.195	89.612	DELETED	60.707	0.288
70	1035	89.212	89.179	89.606	DELETED	60.705	0.288
71	1050	89.185	89.190	89.590	DELETED	60.703	0.288
72	1065	89.163	89.206	89.590	DELETED	60.701	0.286
73	1080	89.179	89.184	89.590	DELETED	60.699	0.288
74	1095	89.163	89.157	89.557	DELETED	60.699	0.289
75	1110	89.158	89.152	89.557	DELETED	60.697	0.289
76	1125	89.152	89.163	89.568	DELETED	60.696	0.289
77	1140	89.108	89.130	89.541	DELETED	60.695	0.289
78	1155	89.179	89.174	89.546	DELETED	60.693	0.289
79	1170	89.119	89.102	89.524	DELETED	60.692	0.289
80	1185	89.108	89.091	89.513	DELETED	60.690	0.290
81	1200	89.097	89.113	89.519	DELETED	60.689	0.289
82	1215	89.103	89.097	89.497	DELETED	60.688	0.290
83	1230	89.097	89.070	89.513	DELETED	60.685	0.290
84	1245	89.070	89.075	89.492	DELETED	60.684	0.290
85	1260	89.065	89.080	89.486	DELETED	60.682	0.290
86	1275	89.059	89.059	89.486	DELETED	60.682	0.290
87	1290	89.048	89.080	89.481	DELETED	60.679	0.290
88	1305	89.043	89.053	89.459	DELETED	60.677	0.291
89	1320	89.043	89.031	89.448	DELETED	60.676	0.291
90	1335	89.037	89.042	89.448	DELETED	60.674	0.291
91	1350	89.021	89.015	89.459	DELETED	60.672	0.291
92	1365	89.015	88.976	89.420	DELETED	60.671	0.291
93	1380	89.010	88.966	89.431	DELETED	60.669	0.291
94	1395	88.999	89.009	89.431	DELETED	60.669	0.292
95	1410	88.993	88.971	89.415	DELETED	60.667	0.292
96	1425	88.988	88.960	89.404	DELETED	60.666	0.292
97	1440	88.982	88.987	89.410	DELETED	60.666	0.292

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	HUM 2 FRACTION	HUM 3 FRACTION	HUM 4 FRACTION	HUM 5 FRACTION	HUM 6 FRACTION	HUM 7 FRACTION
1	0	0.263	0.253	0.274	0.270	0.272	0.265
2	15	0.263	0.254	0.274	0.271	0.272	0.266
3	30	0.264	0.255	0.275	0.272	0.272	0.266
4	45	0.266	0.257	0.275	0.272	0.273	0.267
5	60	0.266	0.258	0.276	0.273	0.273	0.267
6	75	0.267	0.258	0.276	0.273	0.273	0.267
7	90	0.267	0.258	0.276	0.274	0.274	0.268
8	105	0.268	0.260	0.277	0.275	0.275	0.268
9	120	0.269	0.260	0.277	0.275	0.275	0.269
10	135	0.269	0.261	0.278	0.275	0.276	0.269
11	150	0.270	0.261	0.278	0.276	0.276	0.270
12	165	0.271	0.262	0.278	0.276	0.276	0.270
13	180	0.271	0.263	0.279	0.277	0.276	0.271
14	195	0.272	0.263	0.279	0.277	0.277	0.271
15	210	0.272	0.264	0.280	0.278	0.277	0.271
16	225	0.273	0.264	0.280	0.278	0.277	0.272
17	240	0.273	0.265	0.280	0.279	0.278	0.272
18	255	0.274	0.265	0.280	0.279	0.278	0.273
19	270	0.274	0.266	0.281	0.279	0.278	0.273
20	285	0.274	0.266	0.281	0.279	0.279	0.273
21	300	0.276	0.266	0.282	0.280	0.279	0.274
22	315	0.275	0.267	0.282	0.280	0.279	0.273
23	330	0.276	0.267	0.282	0.280	0.280	0.275
24	345	0.277	0.267	0.282	0.280	0.280	0.274
25	360	0.277	0.268	0.283	0.281	0.280	0.275
26	375	0.278	0.268	0.283	0.281	0.281	0.275
27	390	0.277	0.269	0.283	0.281	0.281	0.275
28	405	0.277	0.269	0.284	0.282	0.281	0.276
29	420	0.279	0.269	0.284	0.282	0.282	0.276
30	435	0.278	0.269	0.284	0.282	0.281	0.276
31	450	0.279	0.269	0.284	0.282	0.282	0.277
32	465	0.279	0.270	0.285	0.282	0.282	0.277
33	480	0.279	0.271	0.285	0.283	0.282	0.277
34	495	0.280	0.271	0.285	0.283	0.283	0.277
35	510	0.280	0.271	0.285	0.283	0.283	0.278
36	525	0.281	0.271	0.286	0.284	0.283	0.278
37	540	0.281	0.271	0.286	0.284	0.283	0.278
38	555	0.281	0.272	0.286	0.284	0.284	0.278
39	570	0.281	0.272	0.286	0.284	0.284	0.279
40	585	0.281	0.272	0.287	0.284	0.284	0.278
41	600	0.282	0.273	0.287	0.285	0.284	0.279
42	615	0.282	0.273	0.287	0.285	0.285	0.279
43	630	0.282	0.273	0.287	0.285	0.285	0.279
44	645	0.282	0.273	0.288	0.285	0.285	0.280
45	660	0.282	0.273	0.288	0.285	0.285	0.280
46	675	0.283	0.273	0.288	0.286	0.285	0.280
47	690	0.284	0.274	0.288	0.286	0.285	0.280
48	705	0.283	0.274	0.288	0.286	0.286	0.280
49	720	0.284	0.274	0.288	0.286	0.286	0.280
50	735	0.284	0.275	0.288	0.286	0.287	0.281

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE NUMBER	DELTA MINS	HUM 2 FRACTION	HUM 3 FRACTION	HUM 4 FRACTION	HUM 5 FRACTION	HUM 6 FRACTION	HUM 7 FRACTION
51	750	0.284	0.275	0.289	0.286	0.286	0.281
52	765	0.284	0.275	0.289	0.287	0.286	0.281
53	780	0.285	0.275	0.289	0.287	0.287	0.282
54	795	0.284	0.275	0.289	0.287	0.287	0.282
55	810	0.285	0.275	0.289	0.287	0.287	0.282
56	825	0.285	0.275	0.289	0.287	0.287	0.282
57	840	0.285	0.276	0.289	0.287	0.288	0.283
58	855	0.286	0.276	0.289	0.288	0.287	0.282
59	870	0.286	0.276	0.290	0.288	0.288	0.283
60	885	0.286	0.276	0.290	0.288	0.288	0.282
61	900	0.286	0.276	0.290	0.288	0.288	0.283
62	915	0.286	0.276	0.291	0.288	0.288	0.283
63	930	0.286	0.277	0.290	0.288	0.288	0.283
64	945	0.287	0.277	0.291	0.288	0.288	0.283
65	960	0.287	0.277	0.291	0.288	0.289	0.284
66	975	0.287	0.277	0.291	0.289	0.289	0.284
67	990	0.287	0.277	0.291	0.289	0.289	0.283
68	1005	0.288	0.278	0.291	0.289	0.289	0.284
69	1020	0.287	0.278	0.291	0.289	0.289	0.284
70	1035	0.288	0.278	0.291	0.289	0.290	0.284
71	1050	0.288	0.278	0.292	0.289	0.290	0.284
72	1065	0.288	0.278	0.292	0.289	0.290	0.285
73	1080	0.288	0.279	0.292	0.290	0.290	0.285
74	1095	0.289	0.278	0.292	0.290	0.290	0.285
75	1110	0.289	0.279	0.292	0.290	0.290	0.285
76	1125	0.288	0.279	0.292	0.290	0.291	0.285
77	1140	0.289	0.279	0.292	0.290	0.290	0.285
78	1155	0.289	0.279	0.293	0.290	0.291	0.285
79	1170	0.289	0.279	0.293	0.291	0.291	0.286
80	1185	0.289	0.280	0.293	0.291	0.291	0.286
81	1200	0.290	0.280	0.293	0.291	0.291	0.286
82	1215	0.290	0.280	0.293	0.291	0.291	0.286
83	1230	0.289	0.280	0.293	0.291	0.291	0.286
84	1245	0.290	0.280	0.293	0.291	0.292	0.286
85	1260	0.290	0.281	0.293	0.291	0.292	0.286
86	1275	0.290	0.281	0.294	0.291	0.292	0.287
87	1290	0.290	0.281	0.294	0.291	0.292	0.286
88	1305	0.291	0.281	0.294	0.291	0.292	0.287
89	1320	0.291	0.282	0.294	0.292	0.292	0.287
90	1335	0.291	0.281	0.294	0.292	0.292	0.287
91	1350	0.291	0.282	0.294	0.292	0.293	0.287
92	1365	0.291	0.281	0.294	0.292	0.293	0.287
93	1380	0.291	0.281	0.295	0.292	0.293	0.287
94	1395	0.291	0.282	0.295	0.292	0.293	0.287
95	1410	0.291	0.282	0.295	0.293	0.293	0.288
96	1425	0.291	0.282	0.295	0.293	0.293	0.288
97	1440	0.292	0.282	0.295	0.293	0.293	0.288

END OF TABLE

VARIABLE TABLE SUMMARY

IMPLE MBER	DELTA MINS	HUM 8 FRACTION	HUM 9 FRACTION	HUM 10 FRACTION
1	0	0.294	0.286	0.291
2	15	0.294	0.286	0.291
3	30	0.294	0.286	0.291
4	45	0.295	0.286	0.291
5	60	0.295	0.287	0.291
6	75	0.295	0.287	0.292
7	90	0.295	0.287	0.291
8	105	0.296	0.287	0.292
9	120	0.296	0.288	0.292
10	135	0.296	0.288	0.292
11	150	0.296	0.288	0.292
12	165	0.297	0.288	0.292
13	180	0.296	0.289	0.293
14	195	0.297	0.289	0.293
15	210	0.297	0.289	0.293
16	225	0.297	0.289	0.293
17	240	0.298	0.289	0.293
18	255	0.298	0.290	0.294
19	270	0.298	0.290	0.294
20	285	0.298	0.290	0.294
21	300	0.298	0.290	0.294
22	315	0.298	0.290	0.294
23	330	0.299	0.291	0.295
24	345	0.299	0.291	0.294
25	360	0.299	0.291	0.295
26	375	0.299	0.291	0.295
27	390	0.299	0.291	0.295
28	405	0.299	0.292	0.295
29	420	0.300	0.292	0.295
30	435	0.300	0.292	0.295
31	450	0.300	0.292	0.295
32	465	0.300	0.292	0.295
33	480	0.301	0.292	0.296
34	495	0.301	0.293	0.296
35	510	0.301	0.293	0.296
36	525	0.301	0.293	0.296
37	540	0.301	0.293	0.296
38	555	0.301	0.293	0.297
39	570	0.301	0.294	0.296
40	585	0.302	0.294	0.297
41	600	0.302	0.294	0.297
42	615	0.302	0.294	0.297
43	630	0.302	0.294	0.297
44	645	0.302	0.294	0.298
45	660	0.302	0.294	0.297
46	675	0.302	0.295	0.297
47	690	0.303	0.295	0.298
48	705	0.303	0.295	0.298
49	720	0.303	0.295	0.297
50	735	0.303	0.295	0.298

VARIABLE TABLE SUMMARY (CONTINUED)

AMPLE UMBER	DELTA MINS	HUM 8 FRACTION	HUM 9 FRACTION	HUM 10 FRACTION
51	750	0.303	0.295	0.298
52	765	0.303	0.295	0.298
53	780	0.303	0.295	0.298
54	795	0.303	0.296	0.298
55	810	0.304	0.296	0.298
56	825	0.304	0.296	0.299
57	840	0.304	0.296	0.299
58	855	0.304	0.296	0.299
59	870	0.304	0.296	0.299
60	885	0.305	0.296	0.299
61	900	0.305	0.296	0.299
62	915	0.305	0.297	0.299
63	930	0.305	0.297	0.299
64	945	0.305	0.297	0.299
65	960	0.305	0.297	0.299
66	975	0.305	0.297	0.300
67	990	0.305	0.297	0.299
68	1005	0.305	0.297	0.299
69	1020	0.305	0.297	0.300
70	1035	0.305	0.298	0.300
71	1050	0.306	0.298	0.300
72	1065	0.306	0.298	0.300
73	1080	0.306	0.298	0.300
74	1095	0.306	0.298	0.300
75	1110	0.306	0.298	0.301
76	1125	0.306	0.298	0.301
77	1140	0.306	0.298	0.300
78	1155	0.306	0.298	0.300
79	1170	0.307	0.298	0.300
80	1185	0.307	0.299	0.301
81	1200	0.307	0.299	0.301
82	1215	0.307	0.299	0.301
83	1230	0.307	0.299	0.301
84	1245	0.307	0.299	0.301
85	1260	0.307	0.299	0.301
86	1275	0.307	0.299	0.302
87	1290	0.307	0.299	0.301
88	1305	0.307	0.299	0.301
89	1320	0.308	0.299	0.301
90	1335	0.308	0.299	0.301
91	1350	0.308	0.300	0.302
92	1365	0.308	0.300	0.302
93	1380	0.308	0.300	0.302
94	1395	0.308	0.300	0.302
95	1410	0.308	0.300	0.302
96	1425	0.308	0.300	0.302
97	1440	0.308	0.300	0.302

END OF TABLE

APPENDIX B.3.

PEAK PRESSURE ILRT
COMPUTER GENERATED REPORT
CONTROLLED LEAKAGE RATE TEST
(CLRT)

LOUISIANA POWER & LIGHT COMPANY
WATERFORD 5ES UNIT NO. 3

CONTAINMENT INTEGRATED LEAKAGE RATE TEST
SUPPLEMENTAL VERIFICATION TEST
LEAKAGE RATE MEASURED USING THE ABSOLUTE METHOD
LEAKAGE RATE COMPUTED USING THE MASS POINT METHOD

TEST PERIOD STARTED AT 1945 HOURS ON APRIL 30, 1983
TEST CONDUCTED FOR 5.50 HOURS

FREE SPACE VOLUME OF CONTAINMENT IS 2677000 CU FT
CONTAINMENT WAS PRESSURIZED TO 60.64 PSIA

INITIAL VERIFICATION AIR WEIGHT 795501.0 LBS
FINAL VERIFICATION AIR WEIGHT 794478.6 LBS
FITTED MASS POINT LEAKAGE RATE IS 0.572 % PER DAY

LC = 0.572 LAM = 0.066 LO = 0.499

$$LO + LAM - .25LA < LC < LO + LAM + .25LA$$

$$0.499 + 0.066 - 0.125 < 0.572 < 0.499 + 0.066 + 0.125$$

$$0.440 < 0.572 < 0.690$$

LC = FITTED CLRT MASS POINT LEAKAGE RATE
LAM = FITTED ILRT MASS POINT LEAKAGE RATE
LO = SUPERIMPOSED LEAKAGE DURING VERIFICATION TEST
LA = CONTAINMENT DESIGN LEAKAGE RATE

DESCRIPTION OF VARIABLES

AUG. TEM - CONTAINMENT MEAN TEMPERATURE CALCULATED
FROM VOLUMETRICALLY WEIGHTED RTD SENSOR INDICATIONS.
AVE. PRE - PRIMARY CONTAINMENT PRESSURE INDICATION.
VAP. PRE - CONTAINMENT VAPOR PRESSURE CALCULATED
FROM VOLUMETRICALLY WEIGHTED RHD SENSOR INDICATIONS.
LEAK SIM - SIMPLE TOTAL TIME LEAKAGE RATE.
LEAK MAS - LEAKAGE RATE COMPUTED FROM FIRST ORDER
REGRESSION OF AIR MASS DATA.
AIR MASS - CONTAINMENT AIR MASS.

NOTE FOR TABULAR DATA -

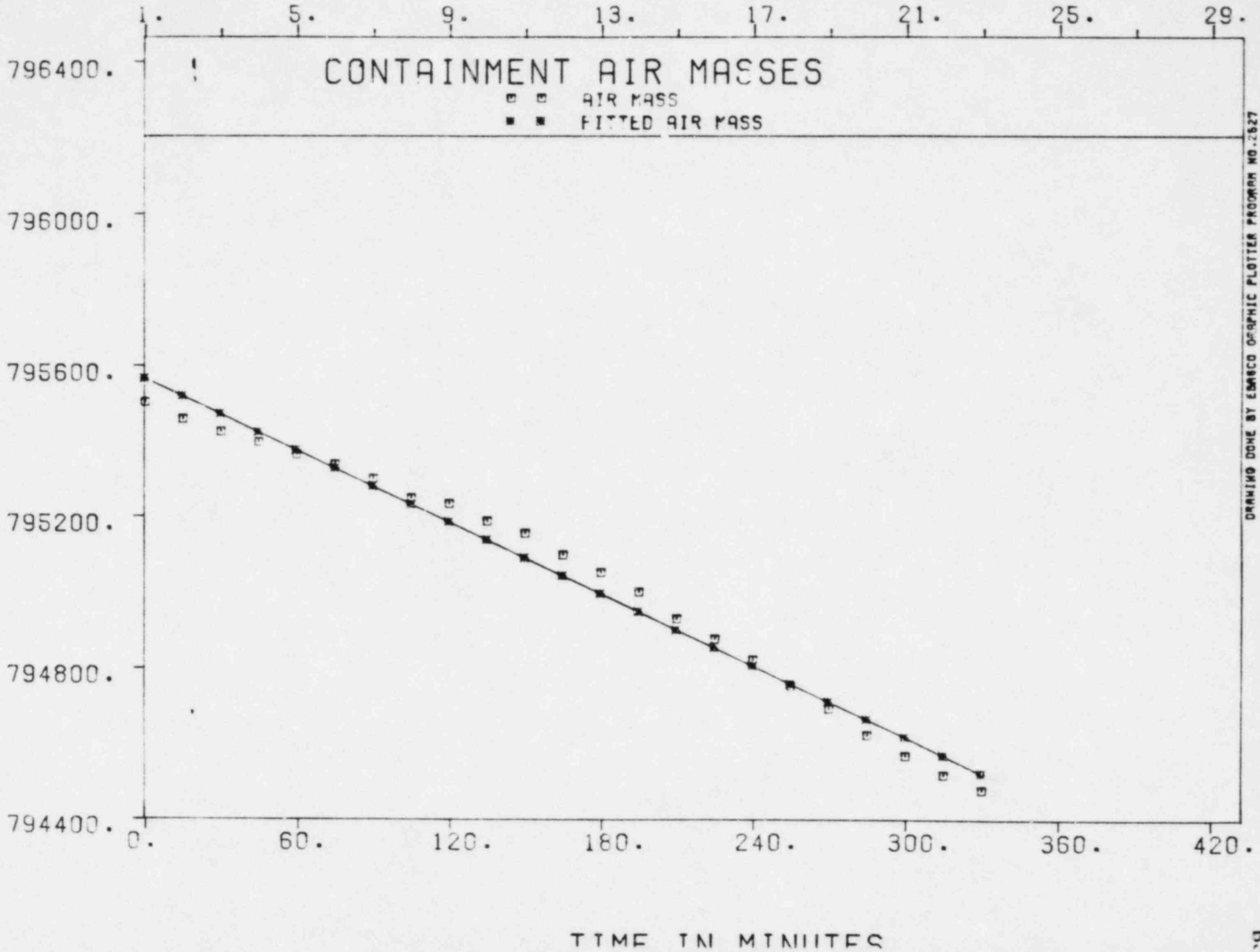
TABLE VALUES OF ZERO SIGNIFY DATA IS
NOT APPLICABLE TO THE CALCULATION.

2. SENSOR HAS BEEN DELETED FROM THE SCAN.

NOTE FOR CURVES -

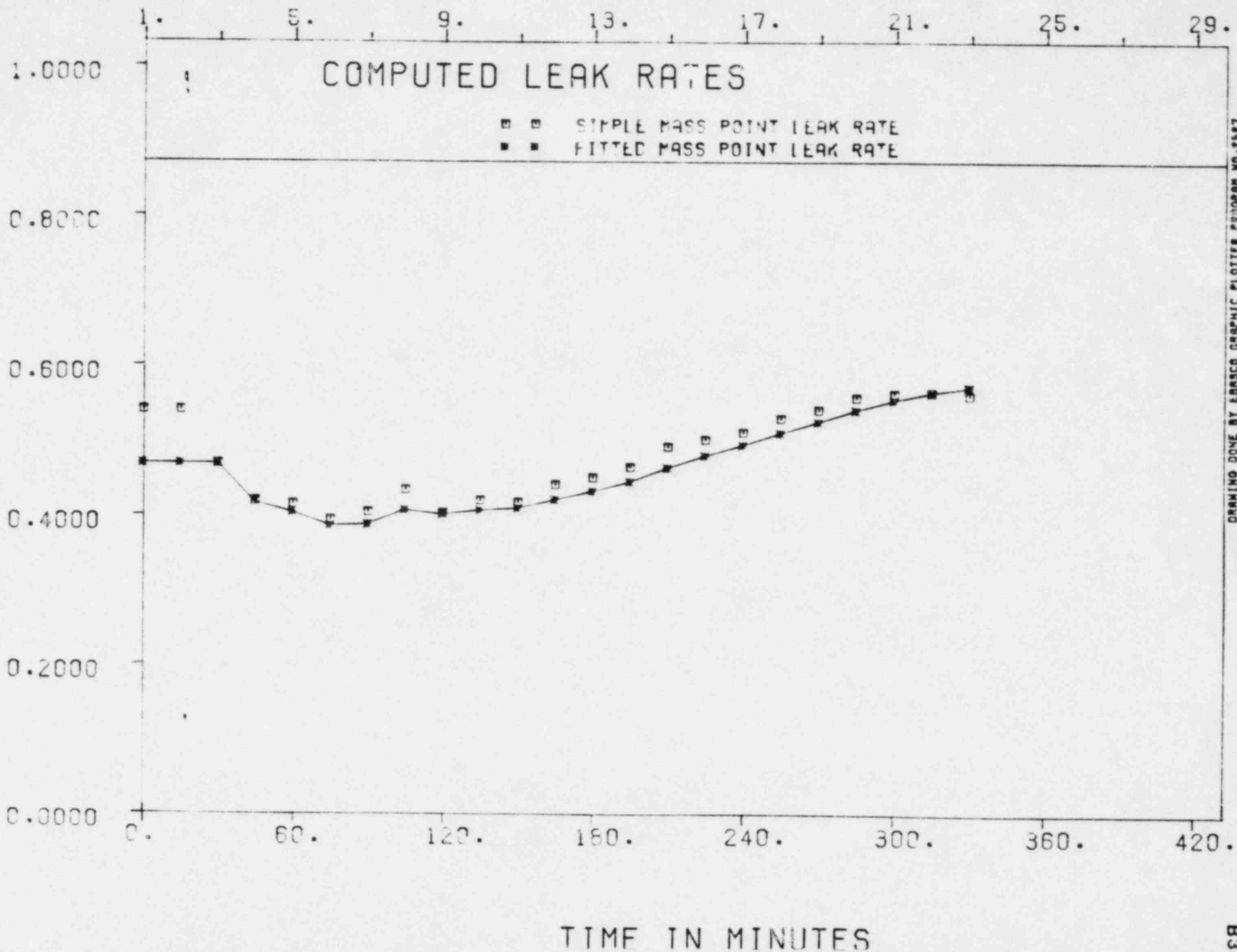
1. TOP ABSCISSA SCALE REPRESENTS SAMPLE NUMBERS.
2. AIR MASS IS THE CALCULATED CONTAINMENT AIR
MASS AND FITTED AIR MASS IS THE LINEAR LEAST
SQUARE FIT OF THE AIR MASSES.
3. SIMPLE MASS POINT IS THE TOTAL TIME LEAKAGE
RATE AND FITTED MASS POINT IS THE LEAKAGE RATE
COMPUTED FROM FIRST ORDER REGRESSION OF AIR MASS DATA.
4. UCL IS THE UPPER LIMIT OF THE 95%
CONFIDENCE LEVEL OF AIR MASS DATA.

CONTAINMENT AIR MASS (LBS)



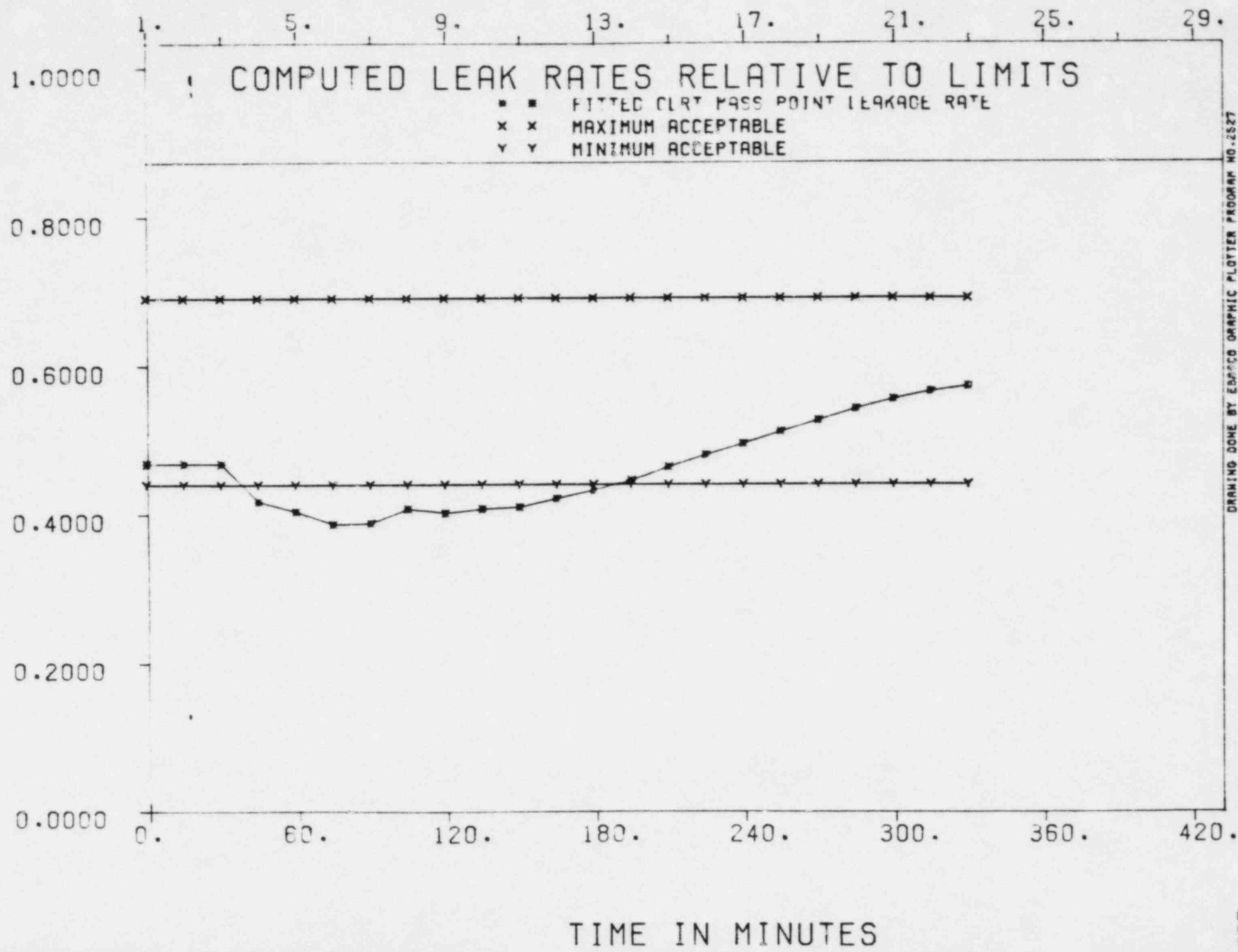
DRAWING DONE BY EMSCO GRAPHIC PLOTTER PROGRAM NO. 2527

PER CENTI PER DAY BY WEIGHT



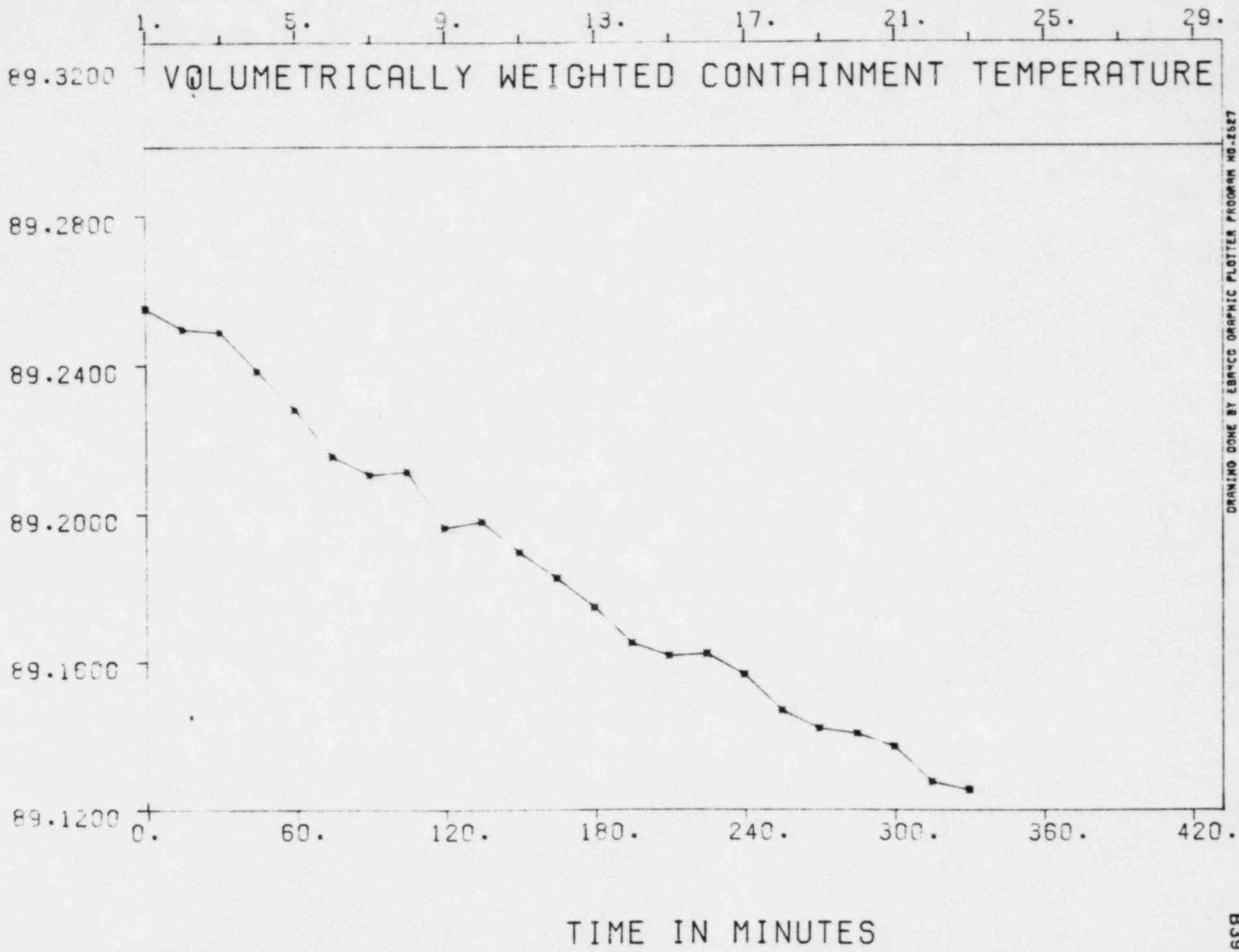
DRAWING DONE BY EBRSCO GRAPHIC PLOTTER PROGRAM NO. 2527

PER CENI PER DAY BY WEIGHT



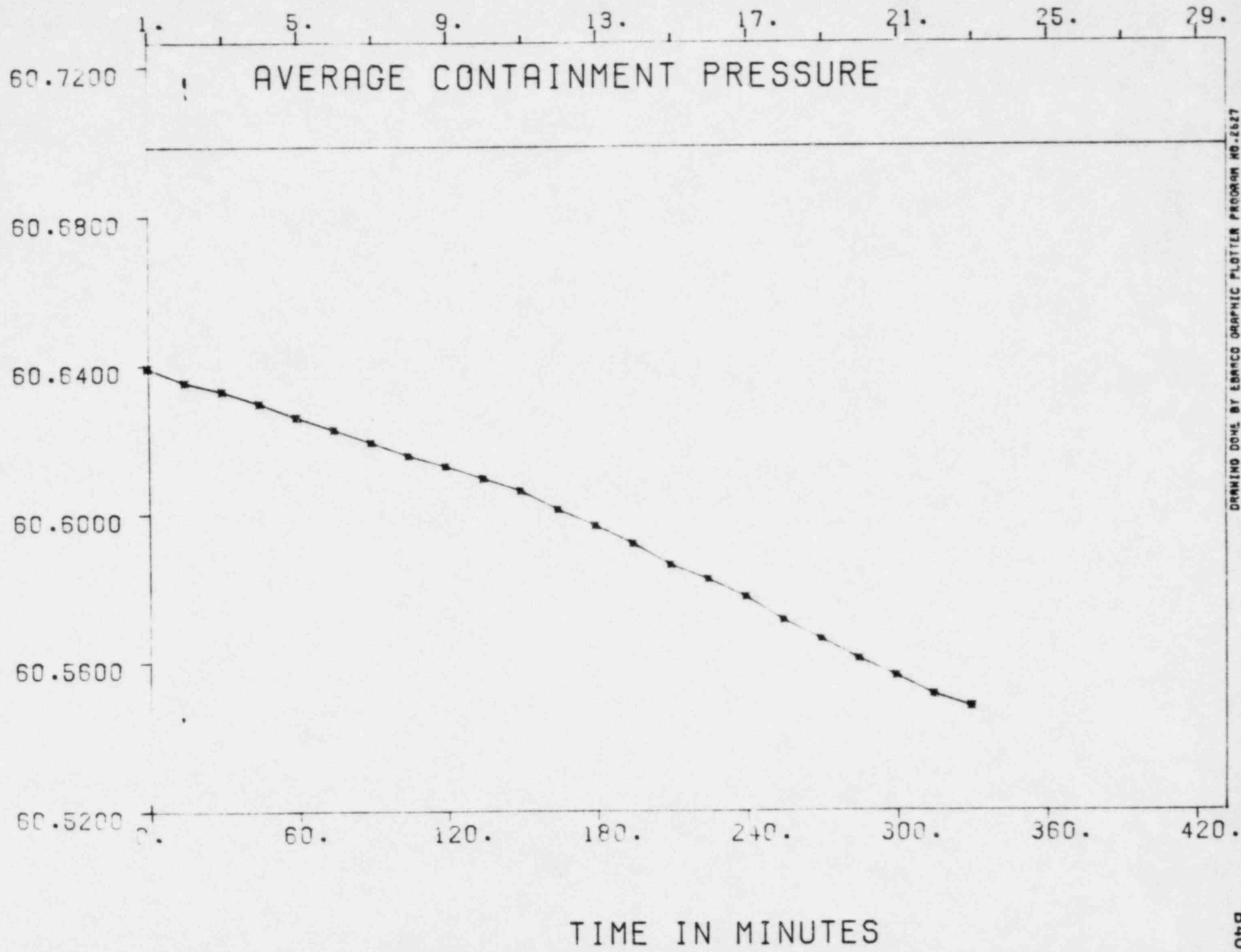
DRAWING DONE BY EDACCO GRAPHIC PLOTTER PROGRAM NO. 2527

TEMPERATURE IN DEGREES FAHRENHEIT



DRAWING DONE BY EBR⁴CC GRAPHIC PLOTTER PROGRAM NO. 2527

PRESSURE IN PSIA



DRAWING DONE BY EBAECO GRAPHIC PLOTTER PROGRAM NO. 2527

TIME IN MINUTES

VAPOR PRESSURE IN PSIA

0.2016

0.2012

0.2008

0.2004

0.2000

0.1996

1. 5. 9. 13. 17. 21. 25. 29.

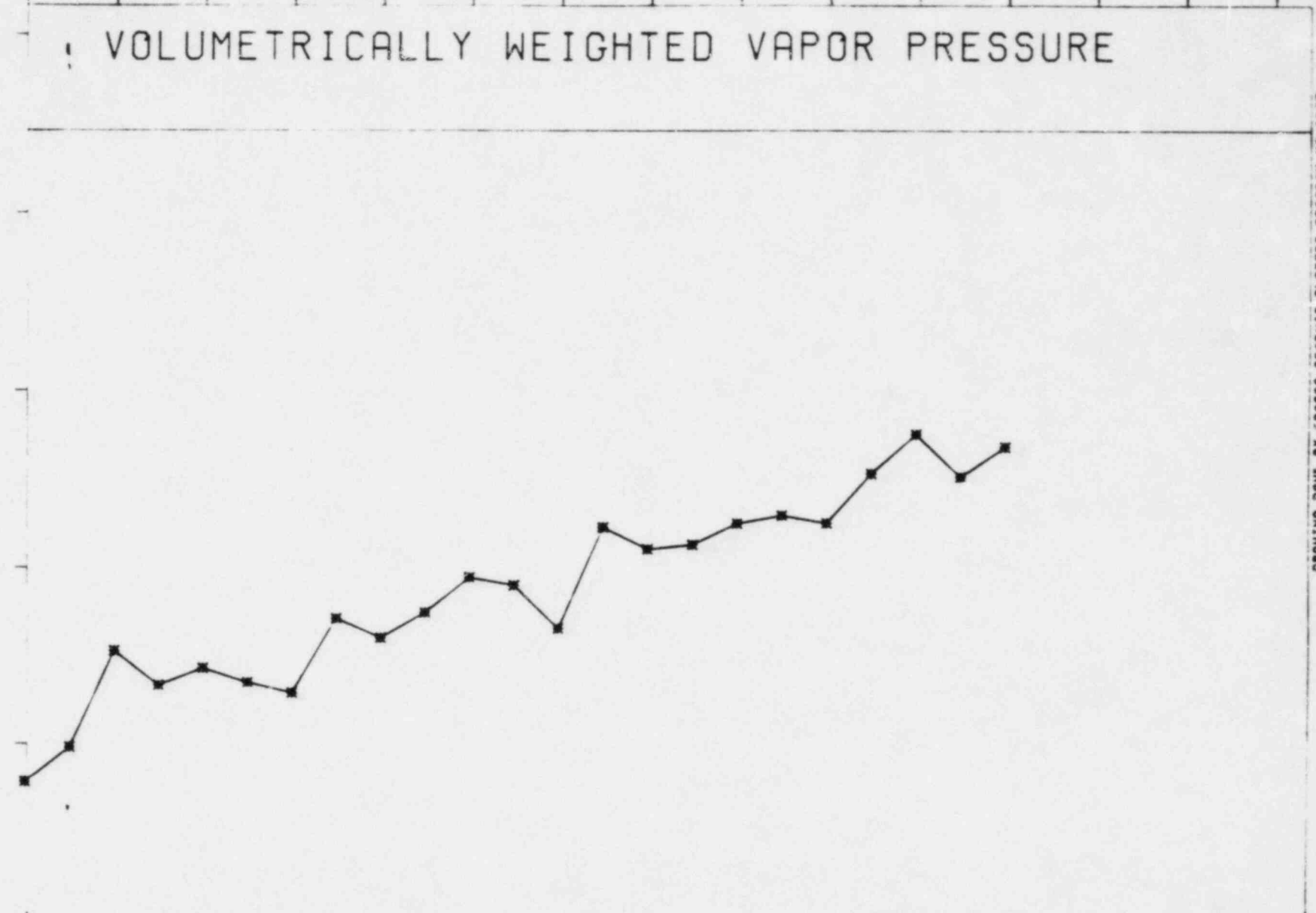
VOLUMETRICALLY WEIGHTED VAPOR PRESSURE

0. 60. 120. 180. 240. 300. 360. 420.

TIME IN MINUTES

DRIVING CONE BY LABSCO GRAPHIC PLOTTER PROGRAM NO. 2627

B4



VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	AVG. TEM DEG. F	AVG. PRE PSIA	VAP. PRE PSIA	LEAK SIM PER CENT	LEAK MAS PER CENT	AIR MASS POUNDS
1	0	89.255	60.6393	0.1999	0.000	0.000	795501
2	15	89.250	60.6354	0.2000	0.540	0.000	795456
3	30	89.249	60.6330	0.2002	0.469	0.469	795423
4	45	89.238	60.6297	0.2001	0.420	0.418	795397
5	60	89.228	60.6261	0.2002	0.415	0.404	795363
6	75	89.215	60.6227	0.2001	0.394	0.387	795338
7	90	89.211	60.6193	0.2001	0.405	0.388	795300
8	105	89.211	60.6157	0.2003	0.435	0.408	795249
9	120	89.196	60.6128	0.2002	0.404	0.402	795233
10	135	89.198	60.6096	0.2003	0.420	0.407	795187
11	150	89.190	60.6063	0.2004	0.418	0.410	795155
12	165	89.183	60.6012	0.2004	0.442	0.421	795099
13	180	89.175	60.5967	0.2003	0.451	0.433	795053
14	195	89.165	60.5919	0.2005	0.465	0.446	795000
15	210	89.162	60.5862	0.2004	0.492	0.464	794930
16	225	89.162	60.5822	0.2005	0.502	0.480	794877
17	240	89.157	60.5775	0.2005	0.512	0.495	794823
18	255	89.147	60.5713	0.2005	0.530	0.511	794754
19	270	89.142	60.5661	0.2005	0.542	0.526	794693
20	285	89.141	60.5607	0.2006	0.558	0.542	794623
21	300	89.137	60.5562	0.2007	0.563	0.555	794568
22	315	89.128	60.5513	0.2006	0.565	0.565	794518
23	330	89.125	60.5481	0.2007	0.561	0.572	794479

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	TEMP 1 DEG. F	TEMP 2 DEG. F	TEMP 3 DEG. F	TEMP 4 DEG. F	TEMP 5 DEG. F	TEMP 6 DEG. F
1	0	89.067	89.075	89.070	89.161	89.199	89.489
2	15	89.057	89.085	89.070	89.161	89.216	89.456
3	30	89.051	89.047	89.059	89.166	89.183	89.495
4	45	89.040	89.031	89.048	89.150	89.183	89.533
5	60	89.035	89.026	89.021	89.150	89.172	89.484
6	75	89.029	89.026	89.021	89.128	89.166	89.429
7	90	89.018	89.015	88.993	89.133	89.166	89.445
8	105	89.007	89.026	89.004	89.117	89.161	89.401
9	120	89.007	88.987	88.999	89.111	89.144	89.440
10	135	88.985	89.009	88.999	89.117	89.128	89.445
11	150	88.991	89.004	88.988	89.106	89.139	89.440
12	165	88.969	88.944	88.972	89.078	89.139	89.505
13	180	88.980	88.955	88.966	89.106	89.128	89.478
14	195	88.963	88.982	88.966	89.089	89.111	89.363
15	210	88.952	88.971	88.950	89.057	89.084	89.374
16	225	88.958	88.977	88.950	89.084	89.106	89.368
17	240	88.952	88.938	88.950	89.073	89.095	89.473
18	255	88.947	88.938	88.955	89.084	89.084	89.352
19	270	88.947	88.938	88.944	89.062	89.095	89.401
20	285	88.947	88.900	88.928	89.051	89.084	89.423
21	300	88.941	88.911	88.955	89.024	89.067	89.379
22	315	88.941	88.917	88.944	89.024	89.062	89.368
23	330	88.925	88.938	88.939	89.040	89.057	89.302

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP 7 DEG. F	TEMP 8 DEG. F	TEMP 9 DEG. F	TEMP 10 DEG. F	TEMP 11 DEG. F	TEMP 12 DEG. F
1	0	88.896	89.113	89.053	89.352	89.191	88.998
2	15	88.901	89.118	89.025	89.368	89.126	89.009
3	30	88.917	89.096	89.014	89.390	89.197	89.003
4	45	88.857	89.080	89.003	89.362	89.121	89.031
5	60	88.879	89.080	88.998	89.357	89.137	89.003
6	75	88.857	89.064	88.987	89.346	89.159	88.960
7	90	88.852	89.064	88.981	89.221	89.164	88.987
8	105	88.901	89.058	88.976	89.341	89.175	88.954
9	120	88.814	89.047	88.981	89.319	89.110	88.971
10	135	88.830	89.042	88.949	89.302	89.142	88.981
11	150	88.830	89.053	88.976	89.341	89.066	88.981
12	165	88.787	89.031	88.921	89.226	89.104	88.922
13	180	88.781	89.042	88.959	89.275	89.077	88.949
14	195	88.847	89.031	88.938	89.237	89.039	88.905
15	210	88.787	89.015	88.954	89.226	89.099	88.943
16	225	88.814	89.004	88.932	89.313	89.077	88.965
17	240	88.787	89.004	88.905	89.292	89.077	88.900
18	255	88.776	89.004	88.888	89.221	89.028	88.900
19	270	88.760	89.020	88.927	89.253	89.050	88.932
20	285	88.749	88.982	88.921	89.259	89.050	88.889
21	300	88.760	88.982	88.894	89.237	89.039	88.803
22	315	88.760	88.987	88.883	89.155	89.077	88.900
23	330	88.765	88.966	88.894	89.248	89.099	88.873

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	TEMP 13 DEG. F	TEMP 14 DEG. F	TEMP 15 DEG. F	TEMP 16 DEG. F	TEMP 17 DEG. F	TEMP 18 DEG. F
1	0	89.179	88.584	89.181	89.172	88.779	DELETED
2	15	89.174	88.573	89.170	89.189	88.768	DELETED
3	30	89.163	88.551	89.159	89.178	88.784	DELETED
4	45	89.163	88.546	89.148	89.167	88.779	DELETED
5	60	89.158	88.530	89.159	89.172	88.740	DELETED
6	75	89.141	88.519	89.132	89.145	88.740	DELETED
7	90	89.125	88.524	89.126	89.150	88.751	DELETED
8	105	89.130	88.519	89.121	89.139	88.719	DELETED
9	120	89.119	88.524	89.115	89.128	88.719	DELETED
10	135	89.114	88.486	89.110	89.150	88.697	DELETED
11	150	89.114	88.492	89.121	89.123	88.702	DELETED
12	165	89.103	88.486	89.088	89.090	88.719	DELETED
13	180	89.097	88.513	89.088	89.117	88.719	DELETED
14	195	89.086	88.470	89.077	89.090	88.719	DELETED
15	210	89.081	88.486	89.066	89.117	88.719	DELETED
16	225	89.081	88.443	89.071	89.106	88.724	DELETED
17	240	89.070	88.454	89.077	89.090	88.708	DELETED
18	255	89.070	88.443	89.055	89.073	88.691	DELETED
19	270	89.054	88.486	89.060	89.052	88.686	DELETED
20	285	89.059	88.459	89.071	89.084	88.691	DELETED
21	300	89.048	88.454	89.033	89.084	88.691	DELETED
22	315	89.037	88.443	89.055	89.057	88.669	DELETED
23	330	89.043	88.448	89.033	89.063	88.691	DELETED

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	TEMP 19 DEG. F	TEMP 20 DEG. F	TEMP 21 DEG. F	TEMP 22 DEG. F	TEMP 23 DEG. F	TEMP 24 DEG. F
1	0	88.831	DELETED	89.303	89.430	89.479	90.814
2	15	88.809	DELETED	89.297	89.419	89.446	90.787
3	30	88.836	DELETED	89.281	89.402	89.479	90.842
4	45	88.815	DELETED	89.270	89.391	89.468	90.787
5	60	88.793	DELETED	89.259	89.386	89.446	90.781
6	75	88.804	DELETED	89.265	89.375	89.429	90.770
7	90	88.793	DELETED	89.248	89.359	89.418	90.765
8	105	88.771	DELETED	89.248	89.364	89.446	90.770
9	120	88.787	DELETED	89.243	89.348	89.418	90.754
10	135	88.798	DELETED	89.232	89.353	89.440	90.748
11	150	88.766	DELETED	89.232	89.337	89.435	90.743
12	165	88.771	DELETED	89.215	89.337	89.429	90.743
13	180	88.760	DELETED	89.210	89.331	89.380	90.721
14	195	88.766	DELETED	89.204	89.320	89.385	90.704
15	210	88.771	DELETED	89.193	89.326	89.380	90.699
16	225	88.760	DELETED	89.188	89.315	89.385	90.688
17	240	88.760	DELETED	89.188	89.304	89.380	90.704
18	255	88.755	DELETED	89.193	89.320	89.363	90.726
19	270	88.749	DELETED	89.177	89.276	89.369	90.688
20	285	88.755	DELETED	89.149	89.298	89.325	90.693
21	300	88.744	DELETED	89.177	89.287	89.385	90.693
22	315	88.722	DELETED	89.166	89.282	89.352	90.655
23	330	88.738	DELETED	89.160	89.265	89.358	90.682

END OF TABLE

VARIABLE TABLE SUMMARY

MPLE MBER	DELTA MINS	TEMP 25		TEMP 26		TEMP 27		TEMP 28		TEMP 29		TEMP 30	
		DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F	DEG.	F
1	0	89.351	89.171	89.241	89.220	89.220	89.163	89.153					
2	15	89.356	89.160	89.252	89.220	89.191	89.163						
3	30	89.340	89.182	89.214	89.237	89.185	89.153						
4	45	89.334	89.160	89.225	89.226	89.185	89.136						
5	60	89.334	89.160	89.236	89.193	89.120	89.147						
6	75	89.307	89.133	89.214	89.193	89.109	89.125						
7	90	89.312	89.144	89.230	89.182	89.103	89.120						
8	105	89.318	89.149	89.203	89.193	89.142	89.109						
9	120	89.312	89.117	89.158	89.154	89.120	89.114						
10	135	89.318	89.144	89.181	89.165	89.142	89.092						
11	150	89.279	89.133	89.169	89.160	89.071	89.098						
12	165	89.268	89.144	89.192	89.171	89.109	89.081						
13	180	89.268	89.138	89.164	89.127	89.054	89.043						
14	195	89.263	89.084	89.147	89.121	89.065	89.109						
15	210	89.257	89.111	89.169	89.099	89.098	89.071						
16	225	89.257	89.111	89.142	89.105	89.071	89.071						
17	240	89.257	89.079	89.147	89.099	89.081	89.071						
18	255	89.246	89.095	89.164	89.077	89.065	89.076						
19	270	89.224	89.079	89.120	89.121	89.021	89.033						
20	285	89.218	89.100	89.147	89.105	89.071	89.054						
21	300	89.274	89.051	89.120	89.094	89.065	89.038						
22	315	89.218	89.089	89.125	89.083	89.049	89.038						
23	330	89.218	89.057	89.109	89.094	89.032	89.043						

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	TEMP 31 DEG. F	TEMP 32 DEG. F	TEMP 33 DEG. F	TEMP 34 DEG. F	TEMP 35 DEG. F	TEMP 36 DEG. F
1	0	89.489	89.303	89.234	89.179	89.630	89.227
2	15	89.450	89.303	89.234	89.218	89.581	89.205
3	30	89.461	89.298	89.223	89.163	89.565	89.200
4	45	89.483	89.314	89.218	89.152	89.619	89.189
5	60	89.450	89.276	89.207	89.163	89.587	89.183
6	75	89.445	89.281	89.190	89.147	89.592	89.178
7	90	89.385	89.325	89.201	89.152	89.597	89.156
8	105	89.445	89.265	89.190	89.136	89.625	89.161
9	120	89.385	89.243	89.179	89.125	89.538	89.139
10	135	89.418	89.298	89.179	89.125	89.554	89.145
11	150	89.396	89.260	89.158	89.130	89.570	89.145
12	165	89.407	89.254	89.152	89.130	89.570	89.123
13	180	89.385	89.216	89.141	89.108	89.603	89.128
14	195	89.380	89.232	89.141	89.103	89.592	89.145
15	210	89.353	89.227	89.147	89.114	89.543	89.095
16	225	89.369	89.238	89.158	89.097	89.527	89.117
17	240	89.374	89.238	89.130	89.097	89.548	89.101
18	255	89.320	89.205	89.136	89.081	89.527	89.095
19	270	89.358	89.189	89.108	89.097	89.472	89.079
20	285	89.336	89.194	89.108	89.086	89.472	89.084
21	300	89.358	89.227	89.097	89.065	89.527	89.084
22	315	89.325	89.162	89.103	89.048	89.581	89.084
23	330	89.309	89.173	89.097	89.075	89.445	89.057

END OF TABLE

VARIABLE TABLE SUMMARY

SAMPLE NUMBER	DELTA MINS	TEMP 37 DEG. F	TEMP 38 DEG. F	TEMP 39 DEG. F	TEMP 40 DEG. F	PRES 1 PSIA	HUM 1 FRACTION
1	0	88.939	88.900	89.366	DELETED	60.639	0.293
2	15	88.922	88.922	89.360	DELETED	60.635	0.293
3	30	88.922	88.894	89.349	DELETED	60.633	0.294
4	45	88.917	88.883	89.333	DELETED	60.630	0.294
5	60	88.917	88.878	89.349	DELETED	60.626	0.293
6	75	88.906	88.872	89.322	DELETED	60.623	0.294
7	90	88.911	88.872	89.327	DELETED	60.619	0.294
8	105	88.889	88.856	89.317	DELETED	60.616	0.294
9	120	88.895	88.883	89.306	DELETED	60.613	0.294
10	135	88.895	88.829	89.295	DELETED	60.610	0.294
11	150	88.873	88.823	89.306	DELETED	60.606	0.294
12	165	88.884	88.867	89.311	DELETED	60.601	0.294
13	180	88.868	88.840	89.295	DELETED	60.597	0.294
14	195	88.863	88.829	89.278	DELETED	60.592	0.295
15	210	88.868	88.812	89.284	DELETED	60.586	0.295
16	225	88.857	88.812	89.278	DELETED	60.582	0.295
17	240	88.868	88.779	89.267	DELETED	60.577	0.295
18	255	88.857	88.823	89.278	DELETED	60.571	0.295
19	270	88.846	88.812	89.267	DELETED	60.566	0.295
20	285	88.840	88.851	89.256	DELETED	60.561	0.295
21	300	88.835	88.801	89.273	DELETED	60.556	0.295
22	315	88.835	88.779	89.267	DELETED	60.551	0.295
23	330	88.835	88.779	89.267	DELETED	60.548	0.295

END OF TABLE

VARIABLE TABLE SUMMARY

IMPLE NUMBER	DELTA MINS	HUM 2 FRACTION	HUM 3 FRACTION	HUM 4 FRACTION	HUM 5 FRACTION	HUM 6 FRACTION	HUM 7 FRACTION
1	0	0.292	0.283	0.296	0.294	0.294	0.289
2	15	0.293	0.283	0.296	0.294	0.294	0.289
3	30	0.294	0.284	0.296	0.294	0.294	0.288
4	45	0.293	0.284	0.296	0.294	0.294	0.289
5	60	0.293	0.284	0.296	0.294	0.295	0.289
6	75	0.294	0.284	0.296	0.294	0.295	0.289
7	90	0.293	0.284	0.296	0.294	0.294	0.289
8	105	0.294	0.284	0.297	0.294	0.295	0.289
9	120	0.294	0.285	0.296	0.295	0.295	0.289
10	135	0.294	0.284	0.297	0.295	0.295	0.289
11	150	0.294	0.285	0.297	0.295	0.295	0.290
12	165	0.294	0.285	0.297	0.295	0.295	0.290
13	180	0.293	0.285	0.297	0.294	0.295	0.289
14	195	0.295	0.285	0.297	0.295	0.295	0.290
15	210	0.295	0.285	0.297	0.295	0.296	0.290
16	225	0.295	0.285	0.297	0.295	0.295	0.290
17	240	0.295	0.285	0.297	0.295	0.296	0.291
18	255	0.295	0.286	0.297	0.295	0.296	0.291
19	270	0.294	0.285	0.297	0.295	0.296	0.291
20	285	0.295	0.286	0.298	0.296	0.296	0.291
21	300	0.295	0.286	0.298	0.296	0.296	0.291
22	315	0.295	0.286	0.298	0.295	0.296	0.291
23	330	0.295	0.286	0.298	0.296	0.296	0.291

END OF TABLE

VARIABLE TABLE SUMMARY

AMPLE UMBER	DELTA MINS	HUM 8 FRACTION	HUM 9 FRACTION	HUM 10 FRACTION
1	0	0.309	0.301	0.302
2	15	0.309	0.301	0.303
3	30	0.309	0.301	0.302
4	45	0.309	0.301	0.303
5	60	0.309	0.301	0.303
6	75	0.309	0.301	0.303
7	90	0.309	0.301	0.303
8	105	0.309	0.301	0.303
9	120	0.309	0.302	0.303
10	135	0.310	0.302	0.303
11	150	0.310	0.302	0.303
12	165	0.310	0.302	0.303
13	180	0.310	0.302	0.304
14	195	0.310	0.302	0.303
15	210	0.310	0.302	0.303
16	225	0.310	0.302	0.304
17	240	0.310	0.302	0.304
18	255	0.310	0.302	0.304
19	270	0.310	0.302	0.304
20	285	0.310	0.302	0.304
21	300	0.310	0.302	0.304
22	315	0.310	0.303	0.304
23	330	0.311	0.303	0.304

END OF TABLE

APPENDIX C.

RTD AND RHD VOLUMETRIC
WEIGHTING FACTORS

RTD VOLUMETRIC WEIGHTING FACTORS

RTD SENSOR NUMBER	REDUCED PRESSURE ILRT FRACTION	PEAK PRESSURE ILRT FRACTION
1	0.02513	0.02513
2	0.02513	0.02513
3	0.02513	0.02513
4	0.02815	0.02815
5	0.02815	0.02815
6	0.02815	0.02815
7	0.02815	0.02815
8	0.02815	0.02815
9	0.02815	0.02815
10	0.02815	0.02815
11	0.02815	0.02815
12	0.02815	0.02815
13	0.01883	0.01883
14	0.01883	0.01883
15	0.01883	0.01883
16	0.01883	0.01883
17	0.01940	0.03110
18	0.01940	DELETED
19	0.01940	0.03110
20	0.01940	DELETED
21	0.03278	0.03278
22	0.03278	0.03278
23	0.03278	0.03278
24	0.03278	0.03278
25	0.03278	0.03278
26	0.03278	0.03278
27	0.03278	0.03278
28	0.03278	0.03278
29	0.03278	0.03278
30	0.03278	0.03278
31	0.01883	0.01883
32	0.01883	0.01883
33	0.01883	0.01883
34	0.01883	0.01883
35	0.01883	0.01883
36	0.01883	0.01883
37	0.01940	0.03110
38	0.01940	0.03110
39	0.01940	0.03110
40	0.01940	DELETED

RHD VOLUMETRIC WEIGHTING FACTORS

RHD SENSOR NUMBER	REDUCED PRESSURE ILRT FRACTION	PEAK PRESSURE ILRT FRACTION
1	0.15654	0.15654
2	0.15654	0.15654
3	0.15654	0.15654
4	0.09215	0.09215
5	0.09215	0.09215
6	0.09215	0.09215
7	0.09215	0.09215
8	0.05392	0.05392
9	0.05392	0.05392
10	0.05392	0.05392